EMERGENCY RESPONSE REPORT

FOR CITGO REFINERY FIRE 1801 NUECES BAY BLVD CORPUS CHRISTI, NUECES COUNTY, TEXAS

Prepared for

U.S. Environmental Protection Agency Region 6

Linda Carter, Project Officer 1445 Ross Avenue Dallas, Texas 75202

Contract No. EP-W-06-042
TDD No. TO-0001-09-07-07
WESTON W.O. No. 20406.012.001.0451.01
NRC No. 912017
CERCLIS No. N/A
FPN N/A
EPA OSC: Mark Hayes
START-3 PTL: Thomas Walzer

Submitted by

Weston Solutions, Inc.

Robert Beck, VP, P.E., Program Manager 70 NE Loop 410, Suite 600 San Antonio, Texas 78216 (210) 308-4300

02 December 2009

PROJECT SUMMARY

This final report describes the U.S. Environmental Protection Agency (EPA) response actions for a Tier 1 Response at the CITGO Refinery Fire, East Plant. The CITGO Refinery, East Plant is located at 1801 Nueces Bay Blvd in Corpus Christi, Nueces County, Texas. The detailed report follows this page, and all attachments are provided as separate portable document format (PDF) files.

On 19 July 2009, the National Response Center (NRC) received a report (NRC Report No. 912017) from CITGO, the Potentially Responsible Party (PRP), of an equipment failure that resulted in a butane and hydrogen fluoride release and fire at their Corpus Christi Refinery, East Plant. CITGO used a constant water-spray system to stop the fire and adsorb any gaseous hydrogen fluoride. Firefighting/vapor suppression water was pumped into the wastewater treatment system until that was full. Firefighting/vapor suppression water was then placed into tank secondary containments prior to treatment and/or discharge.

On 20 July 2009, the United States Environmental Protection Agency (EPA) and the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor, Weston Solutions, Inc., responded to the site, and on 21 July 2009 began off-site air monitoring for volatile organic compounds, carbon monoxide, and hydrogen fluoride. In addition, START-3 collected a water sample from Outfall 001 at the Refinery's wastewater treatment plant. The agencies responding to the incident included the Texas Commission on Environmental Quality (TCEQ) and the United States Chemical Safety and Hazard Investigation Board (CSB).

START-3 was released from the site at 1000 hours on 31 July 2009 after EPA OSC Hayes determined that the fire was extinguished and there was no potential for additional releases of hazardous substances or pollutants into the environment.

This final report was prepared by Weston Solutions, Inc. under Contract No. EP-W-06-042 for EPA Region 6. The EPA On-scene Coordinator (OSC) was Mark Hayes, and the START-3 Project Team Leader (PTL) was Thomas Walzer.

	The EPA Task Monitor did not provide final approval of this report prior to the
	completion date of the work assignment. Therefore, Weston Solutions, Inc. has
	submitted this report absent the Task Monitor's approval.
v	The EPA Task Monitor has provided final approval of this report. Therefore,
X	Weston Solutions, Inc. has submitted this report with the Task Monitor's
	approval.

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EMERGENCY RESPONSE REPORT

PROJECT SUMMARY

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1. PROJECT IDENTIFICATION

Date: 02 December 2009

To: Mark Hayes, On-scene Coordinator (OSC)

U.S. Environmental Protection Agency (EPA) Region 6, Prevention and Response Branch

Through: Linda Carter, Project Officer (PO)

EPA Region 6, Program Management Branch

Through: Robert Beck, VP, P.E., Weston Solutions, Inc. (WESTON_®)

EPA Region 6, Superfund Technical Assessment and Response Team (START-3)

Program Manager

From: Thomas Walzer, WESTON

EPA Region 6, START-3 Project Team Leader

Subject: Emergency Response: CITGO Refinery Fire

1801 Nueces Bay Boulevard, Corpus Christi, Nueces County, Texas

Contract No. EP-W-06-042 TDD No. TO-0001-09-07-07 W.O. No. 20406.012.001.0451.01

NRC No. 912017

FPN N/A

CERCLIS ID N/A

Latitude 27.8093090° North Longitude 97.4266880° West

Geographic coordinates of the incident location were determined by START-3 members using a hand-held Global Positioning System (GPS) based on the World Geodetic System – 1984 (WGS-84) with accuracy estimated at less than 50-feet circular probable error.

2. INTRODUCTION

On 20 July 2009, at 1400 hours, the EPA Region 6 Superfund Technical Assessment and Response Team (START-3) contractor, Weston Solutions Inc. (WESTON), was activated by the EPA Region 6 Prevention and Response Branch (EPA-PRB) to respond to a refinery fire located at 1801 Nueces Bay Boulevard, Corpus Christi, Nueces County, Texas. START-3 responded to the incident with Tier 2 capabilities. START-3 was tasked to collect information, document site activities (written and photographic), and conduct off-site air monitoring for hydrogen fluoride

(HF) and Volatile Organic Compounds (VOCs). On 20 July 2009, START-3 Thomas Walzer and Patrick Bond, and EPA OSC Mark Hayes arrived on-site. The Texas Commission on Environmental Quality (TCEQ) representative, Roger Bennett, was already on-site. TCEQ indicated that the fire started at 0834 hours on 19 July 2009.

3. BACKGROUND

At approximately 0830 hours on 19 July 2009, an equipment failure occurred that resulted in a butane release and fire at the CITGO Petroleum Corporation (CITGO), Corpus Christi, Texas Refinery, East Plant. CITGO issued a shelter-in-place for the adjacent refinery, Flint Hills, and the shelter-in-place was lifted on 19 July 2009 at 1030 hours. At approximately 1108 hours CST on 19 July 2009, the National Response Center (NRC) received a report (NRC Report No. 912017, Attachment K) from CITGO, the Potentially Responsible Party (PRP). CITGO also reported that a very small amount of hydrogen fluoride was released with the butane. The CITGO Corpus Christi Refinery, East Plant is located at 1801 Nueces Bay Boulevard in a mixeduse residential and commercial area on the northwest side of Corpus Christi, Nueces County, Texas (see Attachment A - Site Location Map and Attachment B - Site Area Map). The facility is a refinery of crude oil. The water used for firefighting and vapor suppression was being stored in tanks and secondary containment at the facility. On 19 July 2009, the refinery used fresh water for firefighting/vapor suppression water. Beginning on 20 July 2009, saltwater from the Industrial Canal (intercoastal waterway) was used for firefighting/vapor suppression. Initial firefighting/vapor suppression water (fresh water) was placed in the two wastewater surge tanks, Tank 116 and Tank 117; when these tanks were full, the tanks were drained into their secondary containment and the empty tanks were filled again. The firefighting/vapor suppression water in Tank 116 and 117 was being treated in the wastewater treatment system.

4. ACTIONS TAKEN

On 20 July 2009, EPA OSC Mark Hayes requested START-3 to mobilize to the refinery in Corpus Christi, Nueces County, Texas. At 2000 hours on 20 July 2009, START-3 Thomas Walzer and Patrick Bond met at the refinery with EPA OSC Mark Hayes and TCEQ representative Roger Bennett to obtain information regarding events of the fire. Mr. Bennett

indicated that CITGO had not determined the cause of the fire as yet and the fire was still burning.

EPA began off-site air monitoring on 21 July 2009 and ended on 31 July 2009. The locations monitored are shown on the map presented in Attachment C, and the air monitoring results are included in Attachment D. START-3 monitored air off-site for hydrogen fluoride and volatile organic compounds; this air monitoring did not detect any constituents above background levels.

On 21 July 2009, EPA collected a water sample from the Refinery's Outfall 001 that represented the treated refinery effluent and the initial firefighting/vapor suppression water. The sample was analyzed for fluorides by TestAmerica of Corpus Christi (Attachment E), and the result was 76 milligrams per liter (mg/L). The Texas Pollutant Discharge Elimination System (TPDES) permit limit is 10 mg/L. CITGO reported a discharge violation to the TPDES permit from Outfall 001 based on CITGO's 24-hour composite of 55.7 mg/L fluoride on 21 July 2009. On 21 July 2009, the United States Chemical Safety and Hazard Investigation Board (CSB) arrived onsite and began interviewing personnel. Fires continued on the Alkylation Unit; CITGO had isolated feeds to this unit, so the releases were thought to be only of materials contained in the unit. CITGO reported that their air monitoring showed that no HF was leaving the unit as a vapor, indicating that the vapor suppression activities were adsorbing the HF. CITGO conducted daily meetings with the TECQ and EPA representatives to convey the latest information. Photographic documentation is included Attachment F; a summary timeline of events and information from 21 to 30 July 2009 is presented in Attachment G; a CITGO-provided timeline that covers from 19 to 20 July 2009 is presented in Attachment H; and the pollution reports (POLREPs) are provided in Attachment I.

On 22 July 2009, ENTRIX, a subcontractor to CITGO, began a Baseline Biological Assessment to evaluate the effect of the discharge of saltwater used for vapor suppression on the Industrial Canal. At 1915 hours on 22 July 2009, CITGO began discharging saltwater used for vapor suppression through Outfall 004. CITGO sampled this water at 4-hour intervals, and TCEQ sampled the water twice daily. CITGO analyzed their samples for the stormwater permit parameters plus pH and fluoride. TCEQ analyzed these samples for the process water permit

parameters that include pH and fluoride. On 25 July 2009, CITGO estimated that 12,000,600 gallons of saltwater used for vapor suppression was discharged through Outfall 004.

SealTech, contracted by CITGO, arrived on-site on 23 July 2009. SealTech is a company that specializes in sealing leaks on damaged equipment under hazardous conditions. At 1730 hours on 28 July 2009, SealTech completed sealing the damaged equipment in the alkylation unit, and after repairs were made to the unit's internal HF monitoring system, the "all clear" was sounded at 2025 hours. CITGO personnel began de-inventory of the unit on 30 July 2009. The de-inventory consisted of removal of feedstock and product followed by flushing the Alkylation Unit with a base to neutralize any HF residuals.

EPA maintained the off-site monitoring until 31 July 2009. START-3 was released from the site at 1000 hours on 31 July 2009 after EPA OSC Hayes determined that the fire was extinguished and there was no potential for additional releases of hazardous substances or pollutants into the environment.

This final report was prepared as part of the requirements of TDD No. TO-0001-09-07-07 and serves as documentation of work completed to date.

5. LIST OF ATTACHMENTS

- A. Site Location Map
- B. Site Area Map
- C. Air Monitoring Locations
- D. Start-3 Air Monitoring Results
- E. TestAmerica Analytical Report
- F. Digital Photographs
- G. EPA Timeline
- H. CITGO Timeline
- I. Pollution Reports (POLREPs)
- J. START-3 Logbook

THIS DOCUMENT WAS PREPARED BY WESTON SOLUTIONS, INC. EXPRESSLY FOR EPA. IT SHALL NOT BE RELEASED OR DISCLOSED IN WHOLE OR IN PART WITHOUT THE EXPRESS, WRITTEN PERMISSION OF EPA.

- K. NRC Report Number 912017
- L. TDD No. TO-0001-09-07-07 and Amendment A

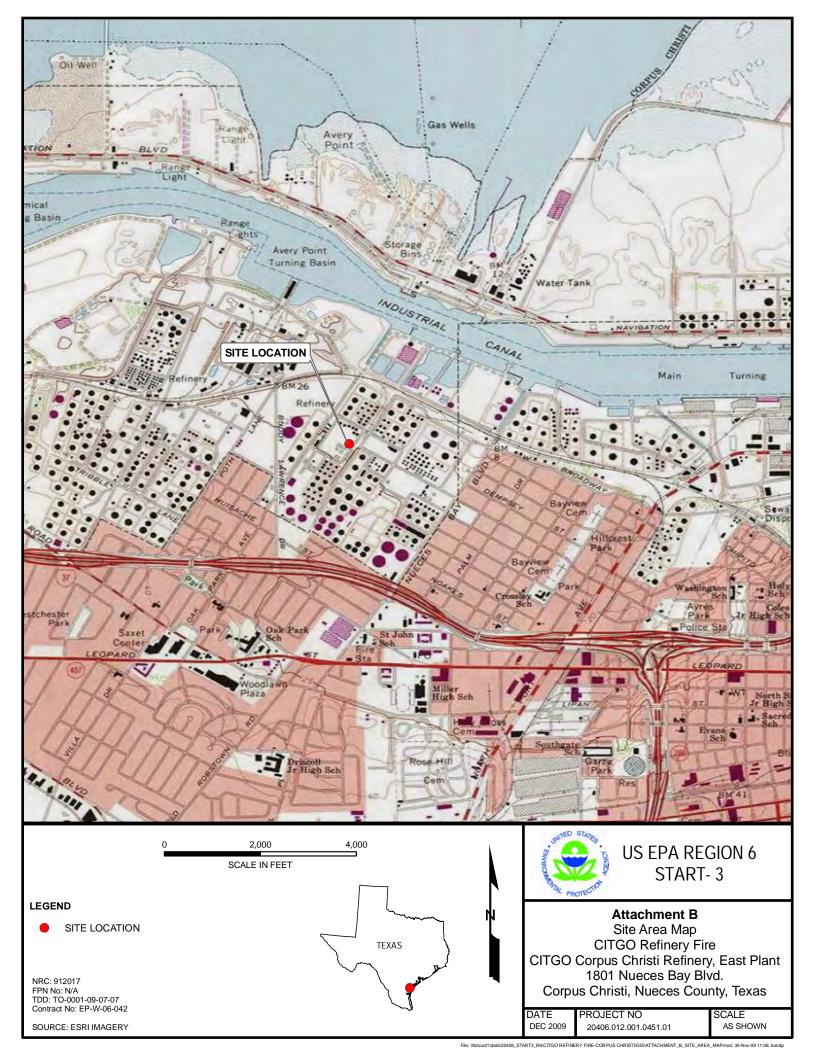
ATTACHMENT A

SITE LOCATION MAP



ATTACHMENT B

SITE AREA MAP



ATTACHMENT C

AIR MONITORING LOCATIONS



ATTACHMENT D

START-3 AIR MONITORING RESULTS

Attachment D

START-3 Air Monitoring Results EPA and START-3

CITGO Refinery Fire, East Plant

Corpus Christi, Nueces County, Texas

			Chlorine		Hydrogen	Hydrogen			
Monitoring	Monitoring		(Cl2)	CO	Fluoride	Sulfide		Oxygen	VOC
Date	Time	Location	(PPM)	(PPM)	(PPM)	(PPM)	LEL (%)	(%)	(PPM)
7/21/2009	1552	OF001	-	0 U	1.5 U	0 U	-	20.9	0 U
7/21/2009	1608	OF002	-	0 U	1.5 U	0 U	-	20.9	0 U
7/21/2009	1629	OF003	-	0 U	1.5 U	0 U	-	20.9	0 U
7/21/2009	1634	OF004	-	0 U	1.5 U	0 U	-	20.9	0 U
7/21/2009	1640	OF005	-	0 U	1.5 U	0 U	-	20.9	0 U
7/22/2009	0835	OF006	-	0 U	1.5 U	0 U	-	20.9	1.3
7/22/2009	0838	OF004	-	0 U	1.5 U	0 U	-	20.9	3.2
7/22/2009	0844	OF003	-	0 U	1.5 U	0 U	-	20.9	2.7
7/22/2009	0848	OF005	-	0 U	1.5 U	0 U	-	20.9	2.3
7/22/2009	0914	OF001	-	0 U	1.5 U	0 U	-	20.9	0 U
7/22/2009	0930	OF002	=	0 U	1.5 U	0 U	=	20.9	0 U
7/23/2009	0843	OF006	-	0 U	1.5 U	0 U	-	20.9	7.1
7/23/2009	0851	OF005	-	0 U	1.5 U	0 U	-	20.9	2.9
7/23/2009	0858	OF003	-	0 U	1.5 U	0 U	-	20.9	2.4
7/23/2009	0903	OF004	-	0 U	1.5 U	0 U	-	20.9	1.6
7/23/2009	0920	OF001	-	0 U	1.5 U	0 U	-	20.9	0 U
7/23/2009	0931	OF002	-	0 U	1.5 U	0 U	-	20.9	0 U
7/24/2009	1008	OF006	-	0 U	1.5 U	0 U	-	20.9	2.3
7/24/2009	1018	OF005	-	0 U	1.5 U	0 U	-	20.9	1
7/24/2009	1027	OF003	-	0 U	1.5 U	0 U	-	20.9	0.1
7/24/2009	1742	OF006	0 U	-	0 U	-	0 U	20.9	1.1
7/24/2009	1748	OF005	0 U	-	0 U	-	0 U	20.9	0.9
7/24/2009	1752	OF003	0 U	-	0 U	-	0 U	20.9	0.8
7/24/2009	1805	OF001	0 U	-	0 U	-	0 U	20.9	0.3
7/24/2009	1815	OF002	0 U	-	0 U	-	0 U	20.9	0.1
7/25/2009	0956	OF006	0 U	-	0 U	-	0 U	20.9	1.8
7/25/2009	1001	OF005	0 U	-	0 U	-	0 U	20.9	2.2
7/25/2009	1005	OF003	0 U	-	0 U	-	0 U	20.9	2.2
7/25/2009	1008	OF004	0 U	-	0 U	-	0 U	20.9	1.9
7/25/2009	1021	OF002	0 U	-	0 U	-	0 U	20.9	1
7/25/2009	1030	OF001	0 U	-	0 U	-	0 U	20.9	0.7
7/28/2009	1601	OF001	0 U	-	0 U	-	0 U	20.9	1
7/28/2009	1609	OF002	0 U	-	0 U	-	0 U	20.9	0.6
7/28/2009	1628	OF005	0 U	-	0 U	-	0 U	20.9	0 U
7/28/2009	1632	OF006	0 U	_	0 U	-	0 U	20.9	0 U
7/28/2009	1652	OF003	0 U	_	0 U	-	0 U	20.9	0 U
7/29/2009	0856	OF002	0 U		0 U	-	0 U	20.9	1
7/29/2009	0907	OF001	0 U	-	0 U	-	0 U	20.9	1
7/29/2009	0923	OF006	0 U	-	0 U	-	0 U	20.9	0.9
7/29/2009	0929	OF005	0 U		0 U	-	0 U	20.9	1.3
7/29/2009	0930	OF003	0 U	-	0 U	-	0 U	20.9	0.5
7/30/2009	1107	OF002	0 U	-	0 U	-	0 U	20.9	1.3
7/30/2009	1116	OF001	0 U	-	0 U	-	0 U	20.9	0.8
7/30/2009	1141	OF006	0 U	-	0 U	-	0 U	20.9	0.3
7/30/2009	1146	OF005	0 U	-	0 U	-	0 U	20.9	0.2
7/30/2009	1150	OF007	0 U	-	0 U	-	0 U	20.9	0 U

Attachment D

START-3 Air Monitoring Results EPA and START-3

CITGO Refinery Fire, East Plant

Corpus Christi, Nueces County, Texas

			Chlorine		Hydrogen	Hydrogen			
Monitoring	Monitoring		(Cl2)	CO	Fluoride	Sulfide		Oxygen	VOC
Date	Time	Location	(PPM)	(PPM)	(PPM)	(PPM)	LEL (%)	(%)	(PPM)
7/30/2009	1530	OF002	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1535	OF008	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1543	OF009	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1549	OF010	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1553	OF011	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1600	OF012	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1604	OF013	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1611	OF014	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1616	OF015	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1619	OF016	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1622	OF017	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1626	OF018	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1640	OF001	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1722	OF006	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1740	OF007	0 U	-	0 U	-	0 U	20.9	0 U
7/30/2009	1746	OF005	0 U	-	0 U	-	0 U	20.9	0 U
7/31/2009	1040	OF001	0 U	-	0 U	-	0 U	20.9	0 U
7/31/2009	1050	OF019	0 U	-	0 U	-	0 U	20.9	1.3
7/31/2009	1056	OF002	0 U	-	0 U	-	0 U	21.5	0 U
7/31/2009	1059	OF008	0 U	-	0 U	-	0 U	21.6	0 U
7/31/2009	1101	OF009	0 U	-	0 U	-	0 U	21.7	0 U
7/31/2009	1103	OF010	0 U	-	0 U	-	0 U	21.8	0 U
7/31/2009	1105	OF011	0 U	-	0 U	-	0 U	21.8	0 U
7/31/2009	1107	OF012	0 U	-	0 U	-	0 U	21.8	0 U
7/31/2009	1111	OF013	0 U	-	0 U	-	0 U	21.9	0 U
7/31/2009	1113	OF014	0 U	-	0 U	-	0 U	21.9	0 U
7/31/2009	1115	OF015	0 U	-	0 U	-	0 U	22.1	0 U
7/31/2009	1116	OF016	0 U	-	0 U	-	0 U	22.1	0 U
7/31/2009	1121	OF017	0 U	-	0 U	-	0 U	22.1	0 U
7/31/2009	1129	OF018	0 U	-	0 U	-	0 U	22.2	0 U
7/31/2009	1138	OF006	0 U	-	0 U	-	0 U	22.4	0 U
7/31/2009	1140	OF005	0 U	-	0 U	-	0 U	22.4	0 U
7/31/2009	1143	OF003	0 U	-	0 U	-	0 U	22.4	0 U
7/31/2009	1146	OF004	0 U	-	0 U	-	0 U	22.4	0 U
7/31/2009	1148	OF007	0 U	-	0 U	-	0 U	22.4	0 U

ATTACHMENT E

TESTAMERICA ANALYTICAL REPORT



ANALYTICAL REPORT

Job Number: 560-16462-1

SDG Number: July 21, 2009

Job Description: 912017 Fluoride Analysis

For:

Weston Solutions, Inc. 5599 San Felipe Suite 700 Houston, TX 77056

Attention: Ms. Kristie Warr

Approved for releas Timothy L. Kellogg Project Manager II 7/22/2009 1:58 PM

Timothy L. Kellogg
Project Manager II
tim.kellogg@testamericainc.com
07/22/2009

Cimolhy L. Kllegg

The test results entered in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in the report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Corpus Christi Certifications and Approvals: NELAC TX T104704210-TX, NELAC KS E-10362, Oklahoma 9968, USDA Soil Permit P330-08-00033.



Job Narrative 560-J16462-1

Receipt

All samples were received in good condition. No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Weston Solutions, Inc. Job Number: 560-16462-1

Sdg Number: July 21, 2009

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
560-16462-1	CC-01 OUTFALL 001					
Fluoride		76	20	mg/L	340.2	

METHOD SUMMARY

Client: Weston Solutions, Inc.

Job Number: 560-16462-1

Sdg Number: July 21, 2009

Description	Lab Location	Method	Preparation Method
Matrix Water			
Fluoride	TAL CC	MCAWW 340.2	

Lab References:

TAL CC = TestAmerica Corpus Christi

Method References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

METHOD / ANALYST SUMMARY

Client: Weston Solutions, Inc. Job Number: 560-16462-1

Sdg Number: July 21, 2009

 Method
 Analyst
 Analyst ID

 MCAWW
 340.2
 Zwierzykowski, Hanna M
 HMZ

SAMPLE SUMMARY

Client: Weston Solutions, Inc. Job Number: 560-16462-1

Sdg Number: July 21, 2009

			Date/Time	Date/Time
Lab Sample ID	Client Sample ID	Client Matrix	Sampled	Received
560-16462-1	CC-01 Outfall 001	Water	07/21/2009 1000	07/21/2009 1538

Analytical Data

Job Number: 560-16462-1 Client: Weston Solutions, Inc.

Sdg Number: July 21, 2009

General Chemistry

Client Sample ID: CC-01 Outfall 001

Lab Sample ID: 560-16462-1 Date Sampled: 07/21/2009 1000 Client Matrix: Water

Date Received: 07/21/2009 1538

RL Analyte Result Qual Units Dil Method Fluoride 76 mg/L 20 200 340.2

Date Analyzed: 07/21/2009 1615 Analysis Batch: 560-37875

DATA REPORTING QUALIFIERS

Lab Section Qualifier Description

QUALITY CONTROL RESULTS

Quality Control Results

No Equipment Assigned

Instrument ID:

Client: Weston Solutions. Inc. Job Number: 560-16462-1 Sdg Number: July 21, 2009

Method Blank - Batch: 560-37875 Method: 340.2 Preparation: N/A

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Lab Sample ID:

MB 560-37875/3

Dilution:

1.0 Units: mg/L Initial Weight/Volume: 1.0 mL 07/21/2009 1615 50 mL Date Analyzed: Final Weight/Volume:

Analysis Batch: 560-37875

Date Prepared: N/A

Analyte Result Qual RL <0.10 0.10 Fluoride

Lab Control Sample - Batch: 560-37875 Method: 340.2 Preparation: N/A

Lab Sample ID: LCS 560-37875/4 Analysis Batch: 560-37875 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 1.0 Units: mg/L Initial Weight/Volume: 1.0 mL

07/21/2009 1615 Date Analyzed: Final Weight/Volume: 50 mL

Date Prepared: N/A

Analyte Spike Amount Result % Rec. Limit Qual 85 - 115 Fluoride 0.800 0.781 98

Matrix Spike/ Method: 340.2 Matrix Spike Duplicate Recovery Report - Batch: 560-37875 Preparation: N/A

MS Lab Sample ID: 560-16462-1 Analysis Batch: 560-37875 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Initial Weight/Volume: Dilution: 200 1.0 mL

07/21/2009 1615 Date Analyzed: Final Weight/Volume: 50 mL

Date Prepared: N/A

MSD Lab Sample ID: 560-16462-1 Analysis Batch: 560-37875 Instrument ID: No Equipment Assigned

Client Matrix: Water Prep Batch: N/A Lab File ID: N/A

Dilution: 200 Initial Weight/Volume: 1.0 mL

07/21/2009 1615 Final Weight/Volume: 50 mL Date Analyzed:

Date Prepared: N/A

% Rec. Analyte MS MSD Limit **RPD RPD Limit** MS Qual MSD Qual Fluoride 97 98 75 - 125 1 20

Calculations are performed before rounding to avoid round-off errors in calculated results.



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SIGNATURE: The Wafer	07/21/2019								IATURE		10.01				77/1.57
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TestAmerica

1733 N. Padre Island Drive

Corpus Christi, TX 78408 Phone: 361.289.2673 /Fax: 361.289.2471

6002/2848HTURNAROUND MAY REQUIRE SURCHARGE

TAL-8222-560 (0808)

Login Sample Receipt Check List

Client: Weston Solutions, Inc.

Job Number: 560-16462-1

SDG Number: July 21, 2009

List Source: TestAmerica Corpus Christi

Login Number: 16462 Creator: Magee, Alice J.

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	Ambient
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and he COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
/OA sample vials do not have headspace or bubble is <6mm (1/4") in liameter.	N/A	
f necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
s the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

ATTACHMENT F

DIGITAL PHOTOGRAPHS

To View Photographs:

- 1) Open the folder: Attachment F Digital Photographs
- 2) Double Click on the file: Click here to view Photo











































ATTACHMENT G

EPA TIMELINE

Attachment G EPA Timeline CITGO Refinery Fire, East Plant Corpus Christi, Nueces County, Texas

Date	Time	Log				
07/21/2009	0700	Informational meeting attended by CITGO, TCEQ, and EPA representatives. Fire Fighting/Vapor Suppression water being pumped to the secondary containment of tanks 301 and 302. From the secondary containment of tanks 301 and 302 it is being pumped to secondary containments of 1022 and 1023, and 221 and 222. The firefighting/vapor suppression water stored in the secondary containment of Tanks 117 and 116 has low pH, 2.9. CITGO will use Soda Ash to neutralize, but the soda ash has not arrived yet. The fire continues in Area 83 of the Alkylation Unit. There are 3 fires one on ground level, which is intermittent and 2 fires are elevated in the unit. CITGO composite sampler for outfall 001 is still functioning and being sampled by the refinery personnel. TCEQ is grabbing spits and analyzing effluent for BOD, COD, Oil and Grease, Hex Chromium, Chromium, sulfides, phenols, ammonia and fluorides. CITGO indicates that the treatment system is not set up for treatment of fluorides.				
07/21/2009	0800	CSB, EPA, CITGO meet to discuss CSB investigation. Status was given as fires continue on the Alkylation Unit; CITGO has isolated feeds to the unit so the releases were thought to be only of materials contained in the unit. CITGO reported that their air monitoring showed no HF was leaving the unit as a vapor, so the vapor suppression was adsorbing the HF. Salt water was being used for vapor suppression.				
07/21/2009	0900	CITGO reports the HF and Butane Tanks are isolated so fire and vapors are only coming from the process vessels leaking toward atmospheric pressure.				
07/21/2009	1000	EPA collects a sample from Outfall 001.				
07/21/2009	1552	EPA does air monitoring at 5 locations outside the Refinery.				
07/21/2009	1935	CITGO reported that the fire may be out and vapor suppression will continue until is confirmed fire and leaks have creased. Some secondary containments are leaking, near tanks 1028 and 116 & 117. High water levels in secondary containments have damaged equipment and rain could cause more damage and float tanks. Idle tanks have floated causing damage to piping and equipment. CITGO reports they are running out of storage space for firefighting / vapor suppression water. CITGO began neutralizing water around tanks 116 & 117. CITGO would like to discharge the salt water used for firefighting and vapor suppression.				
07/22/2009	0650	Fires were reported to be out at 2100 on 07/21/2009.				
07/22/2009	0719	CITGO confirms fire out but there are still 2 LPG and one suspected HF leak so vapor suppression water is still being used on the unit at the rate of 4,000 gallons per minute (gpm). CITGO estimate they have 16,000,000 gallons of stored firefighting / vapor suppression water. The pH of the water in the secondary containment of Tanks 116 and 117 is 2.8 to 3.8 pH units.				
07/22/2008	0830	EPA representatives monitor at locations off site. Nothing above background detected.				

Date	Time	Log					
07/22/2008	1015	Meet with CITGO and TCEQ, CITGO indicates they are running out of storage					
, ,		space for vapor suppression water and wants permission to discharge the salt					
		water used for vapor suppression.					
07/22/2008	1445						
		Industrial Channel prior to discharge of accumulated vapor suppression water.					
07/22/2008							
		CITGO indicates that there are currently 4 leaks, 2 LPG and 2 HF. HF is being					
		captured by the vapor suppression water that is used on the unit at					
		approximately 4,000 gpm. Duck family may have wandered into secondary					
		containment of Tanks 116 and 117. Parks and Wildlife has been notified. The					
		water in the secondary containment around tanks 116 and 117 now around 4.7					
		to 6.7 pH. CITGO says that based on water concentrations of HF, 70 barrels of					
		HF were released. CITGO indicates that no HF left the site as it was captured by					
		the vapor suppression. CITGO indicated that the unit may have contained as					
		much as 370 barrels. The perimeter monitors of the unit have not identified					
		any air bourn HF left the unit.					
07/22/2009	1915	Receive call that CITGO began releasing untreated salt water used in vapor					
		suppression. CITGO is collecting samples of the discharge and analyzing for					
		discharge storm water parameters and fluoride.					
07/23/2009	0715	CITGO briefing; CITGO discharging an estimate 3,500 gpm of salt water used in					
		vapor suppression through Outfall 004. TCEQ collecting samples of the					
		discharge 2 time a day in addition to CITGO samples.					
07/23/2009	0843	Began circuit of offsite monitoring points and nothing was detected above					
/ /		background level.					
07/23/2009	1524	CITGO Update; 2,000 gpm is the current discharge rate from Outfall 004. CITGO					
		perimeter monitoring units still have no detections. SealTech will be entering					
07/24/2000	0045	unit to seal remaining leaks.					
07/24/2009	0845	The secondary containment of tanks 116 and 117 has the first fresh water used					
		for vapor suppression. CITGO is looking at deep well injection of this water due					
07/24/2000	1000	to high fluoride content. SealTech has sealed 2 of the 4 known leaks.					
07/24/2009	1008	EPA does perimeter monitoring.					
07/24/2009	1545	CITGO briefing; SealTech has sealed all ground level leaks. There is only one butane/HF leak left this from a pipe on the top of the settler that can only be					
		accessed by crane and man basket as the walkways are damaged by the fire.					
		Vapor suppression continues until leaks are stopped and the unit's internal HF					
		monitoring is repaired.					
07/24/2009	1742	EPA START-3 conducts off site monitoring.					
07/24/2009	1915	CITGO reports; vapor suppression monitoring continues at 3,000 gpm, discharge					
07/24/2009	1919	through Outfall 004 continues at 3,000 gpm.					
07/25/2009	0800	CITGO reports unit pressure now down to 4psig. They have discharged an					
37,23,2003	0000	estimated 12,000,600 gallons through Outfall 004. Leak on settler has been					
		stopped, but additional leaks were found.					
07/25/2009	0820	EPA START-3 conducts offsite perimeter monitoring.					
5.72572555	5520						

Attachment G EPA Timeline CITGO Refinery Fire, East Plant Corpus Christi, Nueces County, Texas Page 3 of 3

Date	Time	Log						
07/25/2009	1210	Depart site.						
07/27/2009	1735	START-3 mobilized to CITGO.						
07/28/2009	1400	Returned to CITGO						
0728/2009	1500	CITGO briefing; discharge from Outfall 004 has fluoride concentration of 10 and						
		less ppm, the fluoride concentration of the discharge from Outfall 001 is was						
		57 ppm. TCEQ continues to sample the outfalls 2 times a day. Alkylation Unit						
		now has internal pressure of 1 to 1.5 psig.						
07/28/2009	1601	EPA START-3 monitoring perimeter.						
07/29/2009	0800	EPA START-3 does perimeter monitoring.						
07/29/2009	1000	CITGO briefing; Vapor suppression was discontinued at 1730 hours on						
		07/28/2009. The internal monitors are on line and CITGO sounded the all clear						
		at 2025 hours on 07/28/2009. Discharge rate through Outfall 004 at 3,500 gpm.						
		CITGO flushing salt water from firefighting /vapor suppression system. CITGO						
		preparing a soil sampling plan for secondary containments used to store the						
		vapor suppression water.						
07/29/2009	1500	CITGO briefing; Water in secondary containment of Tanks 116 and 117 has 118						
		to 120 ppm fluoride and will be disposed or treated. De-inventory of the						
		Alkylation Unit to begin tomorrow. CITGO considers the emergency over and is						
		discontinuing the formal briefings						
07/30/2009	1050	EPA START-3 begins perimeter monitoring at 5 locations.						
07/30/2009	1530	EPA START-3 begins perimeter monitoring at 18 locations.						
07/31/2009	1000	EPA START-3 released from site after one more monitoring circuit.						
07/31/2009	1015	EPA START-3 begins perimeter monitoring at 19 locations.						
07/31/2009	1200	EPA START-3 demobilized from site.						

ATTACHMENT H

CITGO TIMELINE



Alky Fire Inciden	ıt
July 19, 2009	

8:34—Fire Alarm EP1 Alky unit

8:45—EOC set up and started

9:05—Hotline notified

9:15—Hurt/Injured employee sent to hospital for treatment

9:20—Dave Pruner sent to hospital to be with injured employee

9:30—Cave went out to talk with Citgo responders

9:50—Employee taken to San Antonio to treatment

9:55—EP units cutting back because of Joy Compressor

9:55—Caller times posted event

9:55—Industrial neighbors notified of incident

10:00—Major city officials notified

10:00—TCEQ - called, left message by Eric Bigelow

10:05—Kevin Ferrall left message for Bob Kent

10:15—Zero reading for HF at 4 way stop

10:20—fire still present (contained)

10:24—Term blender bldg readings: zero HF, zero LEL

10:30—Fire on north side of Alky unit

10:30—Shelter in place for Flint Hills released

10:30—TCEQ requested a call to Rodger Bennet

10:31—2 fires, one on the ground and one on structure, they are contained

10:31—Fire battalion chief M. Schmidt arrives to be briefed

10:35—First aid (Slusher) examined by nurse

- 10:38—Eric Bigelow called Rodger Bennet with TCEQ
- 10:40—Call to TCEQ made by Eric Bigelow
- 10:44—Fire at north side area of Alky unit is out
- 10:51—Called Kelly Ruble (537-7911) TCEQ
- 10:50—Notified NRC
- 10:51—Water cannons activated, cause unknown
- 10:52—Small amount of HF detected, water cannons reportedly activated manually
- 10:53—Operations working to adjust water cannons for RECON
- 11:00—Meals ordered for EP1 and NCCR
- 11:06—Eric Bigelow called NRC spoke with petty officer Procko: report # 912017
- 11:10 -Security cameras indicate fire on small bore piping at the reactor
- 11:25—CITGO employees going in to unit to make an assessment
- 11:27—preparations being made to acquire additional PPE
- 11:29—Key isolation block valve closed off in Alky unit
- 11:30—Corporate legal approves press release
- 11:35—recon team has exited the unit and doing decontamination
- 11:45—Press conference takes place, channel 3 and channel 6 on site
- 11:45—Eric speaks to GLO, Steve Bushang and provided update
- 11:49—Representatives from TCEQ have arrived on site
- 11:54—Rodger Bennet (TCEQ) on site and introduced to EOC team
- 12:03—Acid CV leaking. Personnel preparing to enter unit and isolate
- 12:09—ERT personnel entering to shut down the fire truck
- 12:11—TCEQ representative Yvonne Jimenez arrives and introduced to EOC

- 12:14—No fire visible on ground and personnel staging to make another assessment
- 12:14—Meals delivered to EP1 Alky control room
- 12:17—5ppm HF reading corner of Oak Park and Buddy Lawrence.
- 12:19—0 reading HF at IH building
- 12:24—Personnel going into unit to make blocks
- 12:25—Personnel (Slusher) reported OK
- 12:30—Michael Ricke called Katie O'Connell for update on Slusher medical condition and confirmation of injuries
- 12:32—EP2 control room area reports zero reading for HF and LEL
- 12:35—Citgo tower truck had been shut down and isolated
- 12:40—John Silvas talked to John Warner (union representative)
- 12:42—Barnes and Oak Park area reported zero HF and LEL
- 12:50—Alkylate flush pump appears to have seal leak
- 12:51—117 control valve has been isolated
- 12:56—Zero ppm HF reported at Buddy Lawrence
- 13:05—Team examining P&ID's and formulating an isolation plan
- 13:24—Flames reported between drums 1 & 2
- 13:36—LPG area has been checked and is OK, zero LEL and HF
- 13:44—Flint Hills opening valve to supplement firewater supply
- 13:56—Eric talks to Steve Bushang for update, GLO
- 14:28—John Silvas making preparations to travel to San Antonio
- 14:30—Arrangements being made to shuttle Terminal employees at shift change
- 14:35—Jerry Perez has been notified to procure trailers

- 14:50—Investigation team being formed
- 14:57—Zero HF and LEL in the area of TK2001
- 15:00—Michael Ricke says Chris Adams entered a STEERS report
- 15:05—2 out of 3 deluge systems in the unit are now blocked in
- 15:10—Barnes and Oak Park intersection reports zero HF and LEL
- 15:10—Water cannons 11 & 12 activate, HF detected
- 15:18—2 high output pumps on order to transfer low pH water
- 15:30—Dave Cave briefs team on plan to transfer river water to supplement current water supply
- 15:31—Fire reported at Hydrar
- 15:33—Kevin Ferrall making assignments for relief
- 15:44—David Cave explains to team about the need for decon equipment
- 15:48—Curtis Crisp requests the need for personnel to make a lineup to start making 6-oil
- 16:00—Eric called NRC for update, they stated they did not need one
- 16:30—East of Cooling Tower 11, zero HF and LEL
- 17:10—One of the ground fires is reported to be out
- 17:12—TGLO notified—Steve Bushang
- 17:26—Fire at Hydrar reported
- 17:38—Fire water Channel Transfer pump is in place. Team coordinating effort to terminate the loading of a ship to place a barge in its place.
- 17:49—Michael Ricke contacting Jerry Perez to acquire necessary decon equipment
- 18:06—Fire at Hydrar is out
- 18:07—Transfer firewater water pump has been started and pumping water into fire water system

- 18:12—Daniel Escobar with TCEQ on site to relieve the day crew
- 18:34—Entry team entering the unit
- 18:36—Losing suction on firewater pump tanks, extracting entry team
- 18:44—Second fire at Hydrar is out and has been isolated
- 19:03—Operations shutting down TK67 pump
- 19:17—Radiator on FWP 35 is no good
- 19:57—Status of fire-barge, waiting on hoses
- 20:00—Coast guard called—Petty Officer Compton
- 20:05—Visible HF leak spotted in unit, personnel capturing the leak with water
- 20:10—One of the hoses on the fire-barge is charged, working on the second
- 20:12—Ops evaluating water cannons and fire monitors for effectiveness
- 20:23—Authorization given to shut down water cannon 13
- 20:25—Michael Ricke contacting other procurement personnel
- 20:27—Evaluating the possibility of shutting down water cannon 15
- 20:40 Fire Barge pumping salt water into Fire Water Header 50psi on header sys
- 20:45 Tank 67 only pump running, Shutdown Tank 66 pumps because of low city water pressure
- 20:55 Acid circulation pump is currently on fire isolated and burning out. One visible Acid leak contained. "Captured" via water cone
- 21:05 Dennis Calhoun arrived around 20:45 to backup Kevin for night shift.
- 21:10 Alky, Hydrar and #1FCCU units down
- 21:15 4&3m skid pumps at docks operational, P35 at Tk down
- 21:20 Fuel trucks for portable equipment in transit
- 21:21 Secure additional Vacuum Trucks (Miller) Barriger is checking on it

- 21:25 Cave asked Operations to look at North side water cannons for coverage
- 21:32 Operations looking at 20" isolation valve block in Alky (18" suction pump)
- 21:38 TOMORROW: 2) Spray Trucks, 2) VAT Tanks, 2) Mobile Offices
- 21:45 Daniel Escobar/TCEQ General overview: Isolated leaks in Hydrar unit (adjacent to Alky) Alky fire contained.

Couple of small leaks: Water on Isostripper 4" drain line. 2 Leaks contained/captured. Fire water being supplemented from ship channel. Waster water draining to dike. 1022 & 1024 dikes will be used next. Requested Process Diagram of leak areas, Alky unit and location of fire (plot plan).

- 21:50 Requested to be included and copy of timeline.
- 22:05 Miller Vacuum trucks on site.

- 22:26 HF & LEL readings zero per Operations
 - 22:50 PFDs and Plot plans of Alky and Hydrar delivered to TCEQ
 - 23:00 Blocked in small 34 line

561 887 6715

- 23:20 HF & LEL readings zero ... Flint Hills guard shack on Nueces Bay (Up wind neighborhood areas)
- 23:25 HF & LEL readings zero ... Nueces Bay at East Gate
- 23:40 Ken Trial report: Monitor around esv on boot contacting alky qualified instrument techs LPG, LevelB outfits to go into area
- 23:45 CITGO Fire Truck readings zero LEL & HF (West side of Alky)
- 23:46 Wind 15mph out of the south east
- 00:15 Elementis location: HF & LEL reading zero
- 00:32 Move portable fire water tanks at docks to lift station in order to divert water from tanks 116/117 into Dike wall at 1028.
- 01:24 Capt. Cantu get with Mike Morgan at Terminal Blender to get pumps moved. Skid Pumps. Zachry employees onsite and available to help hook up.
- 01:44 Alky laser beams showing all clear which operate deluge cannons
- 01:50 Elementis: LEL & HF at zero
- 01:57 6 ph in runoff water on west side of Alky Unit
- 01:58 Sw to pumps at Tk67 (Gen PM check)
- 02:10 Winds 10mph from South
- 02:15 Firewater pump is being connected at the API
- 02:20 5ppm VOC, HF(zero) under acid settler (location of fire)
- 02:45 Zero LEL under acid settler
- 02:47 Winds at 10mph from the South
- 03:15 Winds at 12mph from the South East

- 03:20 Moved fire pump from the API to Storm water lift station
- 03:51 Swapping P37 to P38 at Tank 67 (Tank 66 pumps shutdown)
- 03:58 Winds 12mph from the SE
- 04:04 Oak Park: Zero HF & LEL

04:14 - Operations able to close 18" FSV

- 04:15 P37 online and P38 down on Tank 67
- 04:17 Elementis: LEL and HF reading zero
- 04:30 Priming portable firewater tank at lift station and tank 117 is at 28 ½ ft. 116/117 firewall will be filled with another 1ft of water.
- 04:36 Request to capture lab samples at old API location
- 04:38 Wind speed at 6mph coming from South, South-East
- 04:42 Elementis: LEL and HF reading zero
- 05:10 Elementis: LEL & HF readings zero
- 05:15 Reading at 4way and North of Alky LEL & HF zero
- 05:15 winds 6mph at South South-east
- 05:20 Tk 116 has 6" to go, Tk 117 have 15"~ before top of Valve 4' ft of Dike wall left before water spills over.
- 05:25 Draining Tk116 to firewall until level in firewall comes up to 6" then we will sw from Tk117 to Tk 116 then drain Tk117 1ft into fire wall.
- 06:30-EOC team has made relief and formulating plans for the day
- 06:52-Zero readings for HF and LEL in the area of the Old Cat
- 07:30-Elementis parking area zero reading for HF and LEL
- 08:08-Pumps are being prepared to be set in the WW area

08:12-Discussion about water sampling and plan forward for WW tanks

08:43-Orders given to begin sampling on the lift station in case there is a need to divert

9:20-General Information

PSM Investigation Team:

Neil Plug

Alan Martini

Adriana Salinas

Landon White

Justin Smith

Don Graffy

Rick Hargrove

Dawn Weinand

Alky Assessment Team

Jay Rynes

Brandon Palmer

Bob Fransmier

Don Dana

Mike Overguard

D.L. Bragg

Gordon Day

Tech Rep-Trina Martinez

Proj.-Adrian Davidson

Evidence Preservation Team

David Pruner

Paulette Fonteno

Greg King

Documentation Team Leader-IKON

Paulette Fonteno

09:30- Called Jack Carroll to work with the Port to acquire fuel for the fire boat

09:30-Air Cannons for bird control are on site at Term WW

09:30-Additional Safety people have arrived and are on site

Steve Fontenot-LCMC

Gary Bussell-LCMC

Expected - Cliff Lester

Paulette Fonteno

Neil Plug

- 10:50-One pump is now running at WW
- 11:04-TCEQ is sending another representative to do sampling
- 11:05-An aircraft has been observed flying in close proximity to the facility
- 11:08-Tk 1023 is scheduled to be sampled
- 11:30-Update on WW pumps, both pumps are pumping now
- 11:40-IH detects some readings of HF in the range of 0.2 0.6 ppm between the RO and EP2 CR
- 11:45-Entry team staging to enter unit to make an evaluation. Personnel are being instructed to shelter in place
- 11:48-1 ppm HF detected near RO and EP2
- 11:55-CSB has issued a press release
- 12:34-North Gate HF readings are zero
- 13:24-0.4 ppm HF detected at EP2
- 13:25- Personnel are repositioning water streams toward the fire
- 13:35-IC and operations reviewing plan for another isolation activity
- 14:00-Zero ppm HF detected at North Gate
- 14:11-1.0 ppm HF reading at EP2, replacing monitor to confirm reading
- 14:23-Actual reading at EP2 are zero ppm HF
- 14:28-Zero HF at North Gate
- 14:35-Elementis reading is zero for HF
- 14:58-Elementis readings are zero HF and zero LEL
- 15:00-Second press release sent out
- 15:45-One fire has been put out, the one on the sample point/level glass

Alky Incident Update July 23, 2009

SAFETY:

- No safety incidents
- Continue to stress heat related safety with employees hydration and frequent breaks
- Monitor readings continue to be 0 HF along battery limits
- Continue to monitor refinery fenceline with personnel; nothing found

ENVIRONMENTAL:

- Neutralization of tank dike 116/117 with soda ash successful pH is now between 6-8
- Required notifications made prior to release of firewater
- Entrix Wildlife and Habitat assessment team arrived and completed sampling for initial assessment
- Releasing of stored firewater from diked areas 200 series tanks and tanks 302/301
- Obtaining samples from Outfall 003 while releasing firewater every 4 hours
- Tea-cup size duckling found in weeds of tank 116/117 deceased; notified US
 Fish & Wildlife and TX Parks and Wildlife; appears to have been drowning; chicken wire being installed across apparent entry route of waterfowl

OPERATIONS:

- Have 4 known HF leaks on the unit water cannons continue to suppress vapors
- Contractor coming in this morning to address HF leaks

ATTACHMENT I

POLLUTION REPORTS (POLREPS)

United States Environmental Protection Agency Region VI POLLUTION REPORT

Date: Tuesday, July 21, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Initiation of Action

Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 1 Site #: **Reporting Period:** 19-21 July 2009 **D.O.** #:

Start Date: 7/19/2009 **Response Authority:** CERCLA **Mob Date:** 7/20/2009 **Response Type:** Emergency

Demob Date: NPL Status: Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 20 July 2009 at 1800 hours EPA OSC Mark Hayes and Superfund Technical Assessment and Response Team (START-3) arrived on-site. START-3 was tasked to collect a water sample at the wastewater treatment outfall 001 and begin perimeter air monitoring for VOCs and Hydrogen Fluoride.

Planned Removal Actions

None planned at this time.

Next Steps

Continue perimeter monitoring and coordinate with other state and federal agencies. Potentially collect additional water samples to monitor plant discharge.

Key Issues

There has been a non-detect of VOCs and Hydrogen Flouride from air monitoring around the perimeter of the facility. Monitoring is ongoing of fire fighting efforts and the potential for Hydrogen Flouride release.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

www.epaosc.org/CitgoRefineryFireCorpus

Date: Wednesday, July 22, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 2 Site #: Reporting Period: D.O. #:

Start Date: 7/19/2009 **Response Authority:** CERCLA **Mob Date:** 7/20/2009 **Response Type:** Emergency

Demob Date: NPL Status:

Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 21 and 22 July 2009 EPA perimeter air monitoring for VOCs and HF continues to reflect non-detect of HF. At 2100 hours on 22 July 2009 CITGO confirmed that the fires were out. At 1015 hours on 22 July 2009 storage of fire fighting water is becoming critical so CITGO is supplying data for a permission to discharge water that exceeds their permit limits for fluoride. At 1615 hours on 22 July 2009, CITGO indicated there were four continuing leaks on the Alkylation Unit, 2 of LPG and 2 of HF. The leaks were identified by observation of the interaction on the leaks with the water curtain as the internal unit monitoring system was damaged by the fire. The Alkylation Unit perimeter monitoring continues to show that no airborne HF has left the unit. CITGO has estimated that 70 barrels of HF is contained in the fire fighting water stored on the facility or discharged through the plant treatment system. On 22 July 2009 at 1930 Citgo initiated an unauthorized discharge of run-off water containing elevated levels of fluoride, exceeding NPDES permit limits, into a ship channel adjacent to the facility. The run-off water was diverted into secondary containment throughout the facility during fire suppression operations.

Planned Removal Actions

Incident is being monitored. None planned by EPA at this time.

Next Steps

Continue perimeter monitoring until hydrogen fluoride leaks are stopped and coordinate with other state and federal agencies. Potentially collect additional water samples to monitor plant discharge.

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility. Monitoring is ongoing of fire fighting efforts and the potential for HF release. Unauthorized discharge of water containing elevated levels of flouride into the nearby ship channel.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Date: Thursday, July 23, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 3 Site #: Reporting Period: D.O. #:

Start Date: 7/19/2009 **Response Authority:** CERCLA **Mob Date:** 7/20/2009 **Response Type:** Emergency

Demob Date: NPL Status:

Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 23 July 2009 EPA perimeter air monitoring for VOCs and HF continues to reflect non-detect of HF. At 0140 hours on 23 July 2009 CITGO initiated a discharge of seawater used in fire fighting and vapor suppression operations through outfall 004, a storm water outfall. At 0200 hours on 23 July 2009 CITGO began sampling the outfall 004 at 4 hour intervals for the parameters for storm water plus pH and fluoride. CITGO estimates they are discharging at approximately 2,000 gallons per minute (gpm). TCEQ also grabbed split samples to analyze for waste water parameters in CITGO's discharge permit. TCEQ will grab additional water samples once the next secondary containment is discharged. At the 1530 briefing CITGO identified that Sealtech, the company contracted to seal the HF leaks on the Alkylation Unit, will be entering the unit to assess what is required to secure the HF leaks. CITGO cannot estimate when the leaks will be secured until they have an estimate from Sealtech and will continue to use 4,000 gpm of seawater for vapor suppression. CITGO monitoring at the perimeter of the unit has not identified any airborne releases from the unit.

Planned Removal Actions

Incident response is being monitored. None planned by EPA at this time.

Next Steps

Continue perimeter monitoring until hydrogen fluoride leaks have been secured and coordinate with other state and federal agencies. Potentially collect additional water samples to monitor plant discharge.

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility. Unauthorized discharge of water containing elevated levels of flouride into the nearby ship channel is on-going.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Date: Saturday, July 25, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 4 Site #: Reporting Period: D.O. #:

Start Date: 7/19/2009 **Response Authority:** CERCLA **Mob Date:** 7/20/2009 **Response Type:** Emergency

Demob Date: NPL Status:

Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 24 July 2009 EPA perimeter air monitoring for VOCs and HF continues to reflect non-detect of HF. On 23 July 2009 CITGO continues to discharge the seawater used in fire fighting and vapor suppression through Outfall 004, a storm water outfall at approximately 3,000 gpm. CITGO samples the Outfall 004 at 4 hour intervals for the parameters for storm water plus pH and fluoride. TCEQ is grabbing split samples and analyzing for the waste water parameters in CITGO's discharge permit. TCEQ will grab samples twice a day. At the 1900 briefing CITGO identified that Sealtech, the company contracted to seal the HF leaks on the Alkylation Unit, had sealed 3 of the 4 known leaks. CITGO now uses 3,000 gpm of seawater for vapor suppression and may continue until the unit's internal monitoring system in the area of where the fire occured is restored. CITGO monitoring at the perimeter of the Alkylation Unit has not identified any airborne releases. CITGO is depressurizing the unit through an acid gas removal system and flaring the remaining gas through the flare.

Planned Removal Actions

Incident response is being monitored. None planned by EPA at this time.

Next Steps

Continue perimeter monitoring until hydrogen fluoride leaks have been secured and coordinate with other state and federal agencies.

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility. Unauthorized discharge of water containing elevated levels of flouride into the nearby ship channel is on-going.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Date: Monday, July 27, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Continueing Monitoring

Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 5 Site #: Reporting Period: 25 and 26 July 2009 D.O. #:

Start Date: 7/19/2009 Response Authority: CERCLA Mob Date: 7/20/2009 Response Type: Emergency

Demob Date: NPL Status: Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 25 July 2009 EPA perimeter air monitoring for VOCs and HF continues to reflect non-detect of HF. At the 0800 briefing CITGO identified the Sealtech, the company contracted to seal the HF leaks on the Alkylation Unit, had sealed the fourth of the 4 known leaks, and discovered 3 more leaks one from the packing of a 12-inch valve. CITGO continues to discharge the seawater used in fire fighting and vapor suppression through Outfall 004, a storm water outfall at approximately 3,000 gpm. CITGO samples the Outfall 004 at 4 hour intervals for the parameters for storm water plus pH and fluoride. The TCEQ is grabbing split samples twice a day and analyzing for the waste water parameters in CITGO's discharge permit. CITGO estimated that 12,000,600 gallons of fire fighting water had been discharged. CITGO estimates they use 3,000 gpm of seawater for vapor suppression and may continue to use vapor suppression water at that rate until the unit's internal monitoring system is in the area of the fire is restored and all leaks are sealed. CITGO monitoring at the perimeter of the unit has not identified any airborne release from the unit. CITGO is depressurizing the unit through an acid gas removal system and flaring the remaining gas through the flare and has indicated that the unit pressure in the leaking circuit is down to 4 psig. EPA

demobilized from the site as the TCEQ was maintaining a 24-hour presence at the facility until all vapor suppression is discontinued. After treating the fresh water used in fire fighting and vapor suppression with soda ash to adjust the pH from around 2 to around 6.5 CITGO is adding this water with elevated fluoride concentrations into the plant waste water treatment system. On 26 July 2009 the three additional leaks identified yesterday had been stopped and 2 more leaks were identified bringing the total of newly identified leaks to 5. The 2 remaining of the 5 leaks was expected to be stopped on 27 July 2009.

Planned Removal Actions

Incident response is being monitored. None planned by EPA at this time.

Next Steps

Coordinate with other state and federal agencies and monitor the situation by telephone

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility. The pressure in the unit is low and CITGO indicates that only trace HF is being released, and the vapor suppression efforts continue so there have been no detections outside the unit. Unauthorized discharge of untreated seawater used in fire fighting and vapor suppression that contained elevated levels of fluoride into the nearby ship channel continues. Treated fresh water used in fire fighting and vapor suppression had elevated fluoride concentrations in the plant discharge.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Date: Wednesday, July 29, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 6 Site #: Reporting Period: D.O. #:

Start Date: 7/19/2009 **Response Authority:** CERCLA **Mob Date:** 7/20/2009 **Response Type:** Emergency

Demob Date: NPL Status:

Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 27 July 2009 EPA perimeter air monitoring for VOCs and HF continues to reflect non-detect. CITGO continues to discharge the saltwater used in fire fighting and vapor suppression through storm water outfall 004 at approximately 3,500 gpm. CITGO samples the Outfall 004 at 4 hour intervals for the parameters of storm water plus pH and fluoride. CITGO reports the results are within permit limits, with fluoride running equal to and less than 10 ppm. TCEQ is grabbing split samples twice a day and analyzing for the waste water parameters in CITGO's discharge permit. CITGO estimates they use 3,000 gpm of water for vapor suppression and may continue to at that rate until the unit's internal monitoring system in the area of where the fire occurred is restored and all leaks are sealed. At 1500 hours attempts to repair or replace these monitors were initiated. CITGO monitoring at the perimeter of the alkylation unit has not identified any airborne releases of HF. CITGO is depressurizing the unit through an acid gas removal system and flaring the remaining gas. CITGO has indicated that the unit pressure in the leaking circuit is down 1 to 1.5 psig. After treating the fresh water stored in secondary containments 116 and 117 with soda ash to adjust the pH from around 2 to around 6.5, CITGO is considering options for disposal. The fresh water used in fire fighting and vapor suppression that was stored into tanks 116 and 117 is

being routed through the plant wastewater treatment system and discharged at outfall 001. CITGO reports the discharge from outfall 001 is within permit limits except for fluoride concentrations, which is running at 57 ppm. Citgo suspects additional unknown leaks near where the fire occurred and will continue to assess.

Planned Removal Actions

Incident response is being monitored. No removal actions planned at this time.

Next Steps

Coordinate with state and federal agencies and continue to monitor the situation.

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility. The pressure in the unit is low and CITGO indicates that only hydrocarbons are being released, and the vapor suppression efforts continue so there have been no detections outside the unit. Unauthorized discharge of untreated seawater used in fire fighting and vapor suppression that contained elevated levels of fluoride into the nearby ship channel continues. Treated fresh water used in fire fighting and vapor suppression had elevated fluoride concentrations in the plant discharge.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Date: Monday, August 03, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 7 Site #: Reporting Period: D.O. #:

Start Date: 7/19/2009 **Response Authority:** CERCLA **Mob Date:** 7/20/2009 **Response Type:** Emergency

Demob Date: NPL Status:

Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 28 July 2009 EPA perimeter air monitoring for VOCs and HF continues to reflect a non-detect. CITGO continues to discharge the seawater used in fire fighting and vapor suppression through Outfall 004, a storm water outfall, at approximately 3,500 gpm. CITGO sampled Outfall 004 at 4 hour intervals for the parameters for storm water plus pH and fluoride. CITGO reports the results are within the NPDES permit limit, with fluoride running equal to and less than 10 ppm. TCEQ is grabbing split samples twice a day and analyzing for the waste water parameters in CITGO's discharge permit. At 1730 hours CITGO discontinued the usage of saltwater for vapor suppression. Immediately following, CITGO entered the unit to confirm that the leaks were secured, repaired and replaced elements in the unit's internal monitoring system. At 2025 hours the all clear was sounded by CITGO and decontamination of the unit's exterior began.

On 29 July 2009 CITGO is depressurizing the unit and is preparing to de-inventory the unit. De-inventory is projected to begin tomorrow and last 2 to 3 days. Once the unit is de-inventoried the internal decontamination will begin with an acid wash, followed by a caustic wash, and completed by a neutralization wash. The internal decontamination is estimated to last 1 to 3 days. There is an

estimated 150,000 barrels of fresh water, used during vapor suppression efforts, stored in the secondary containment of Equalization Tanks 116 and 117. The stored fresh water was previously treated with soda ash to adjust the pH from around 2 to 7. CITGO is considering options for disposal of the treated fresh water through additional methods. The fresh water, used during vapor suppression efforts, stored in Equalization Tanks 116 and 117 is being treated with the plant waste and being discharged with elevated fluoride concentrations from Outfall 001.

Planned Removal Actions

Incident response is being monitored. No removal actions planned at this time.

Next Steps

Continue to Coordinate with state and federal agencies and continue to monitor the situation.

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility. The pressure in the unit is low and CITGO indicates that all leaks, specifically HF, have stopped. CITGO is continuing efforts to allow access to the unit. Unauthorized discharge of untreated saltwater used in fire fighting and vapor suppression nearby industrial channel continues.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Date: Monday, August 03, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

ranch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 8 Site #: Reporting Period: D.O. #:

Start Date: 7/19/2009 **Response Authority:** CERCLA **Mob Date:** 7/20/2009 **Response Type:** Emergency

Demob Date: NPL Status:

Completion Date: Incident Category:

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

On 30 July 2009 EPA perimeter air monitoring for VOCs and HF continues to reflect non-detect. CITGO is depressurizing the unit and is preparing to make the connections to de-inventory the unit. De-inventory is delayed pending CSB and OSHA approval of the alterations that need to made to remove the inventory from the unit.

Planned Removal Actions

Incident response is being monitored. No removal actions planned at this time.

Next Steps

Continue to Coordinate with state and federal agencies and continue to monitor the situation.

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility. The pressure in the unit is low and CITGO indicates that all leaks, specifically HF, have

stopped. CITGO is continuing efforts to allow access to the unit. Unauthorized discharge of untreated saltwater used in fire fighting and vapor suppression nearby industrial channel continues.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Date: Tuesday, September 15, 2009

From: Mark Hayes

To: R6 PolRep TX, Response and Prevention Debbie Dietrich, Office of Emergency

Branch Management

Sam Coleman, Superfund Division Chris Petersen, Superfund Division

Subject: Final

Citgo Refinery Fire

1801 Nueces Bay Blvd, Corpus Christi, TX

Latitude: 27.8093090 Longitude: -97.4266880

POLREP No.: 9 **Site #:** A6R9

Reporting Period: D.O. #:

Start Date:7/19/2009Response Authority:CERCLAMob Date:7/20/2009Response Type:EmergencyDemob Date:7/31/2009NPL Status:Non NPL

Completion Date: 9/15/2009 **Incident Category:** Removal Assessment

CERCLIS ID #: Contract #

RCRIS ID #:

Site Description

On 19 July 2009, at approximately 0835 hours, an equipment failure resulted causing a fire of released Butane and a potential release of Hydrogen Fluoride from a #2 Alkylation Unit at the Citgo Corpus Christi east plant. Perimeter monitoring conducted by TCEQ and Citgo did not detect any VOCs or Hydrogen Fluoride. The fire fighting and water spray suppression appear to have prevented any releases from being detectable at the site perimeter. One injury resulted from the initial fire.

Current Activities

EPA continues to correspond with federal and state agencies as needed.

Planned Removal Actions

There are no removal actions planned.

Next Steps

None

Key Issues

There has been a non-detect of VOCs and HF from air monitoring around the perimeter of the facility.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
Intramural Costs				
Total Site Costs	\$0.00	\$0.00	\$0.00	0.00%

^{*} The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

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CITGO REFINERY Fire

EAST Plant
Corpus Christi, Nueces County

Texas

TO-0001-09-07-07

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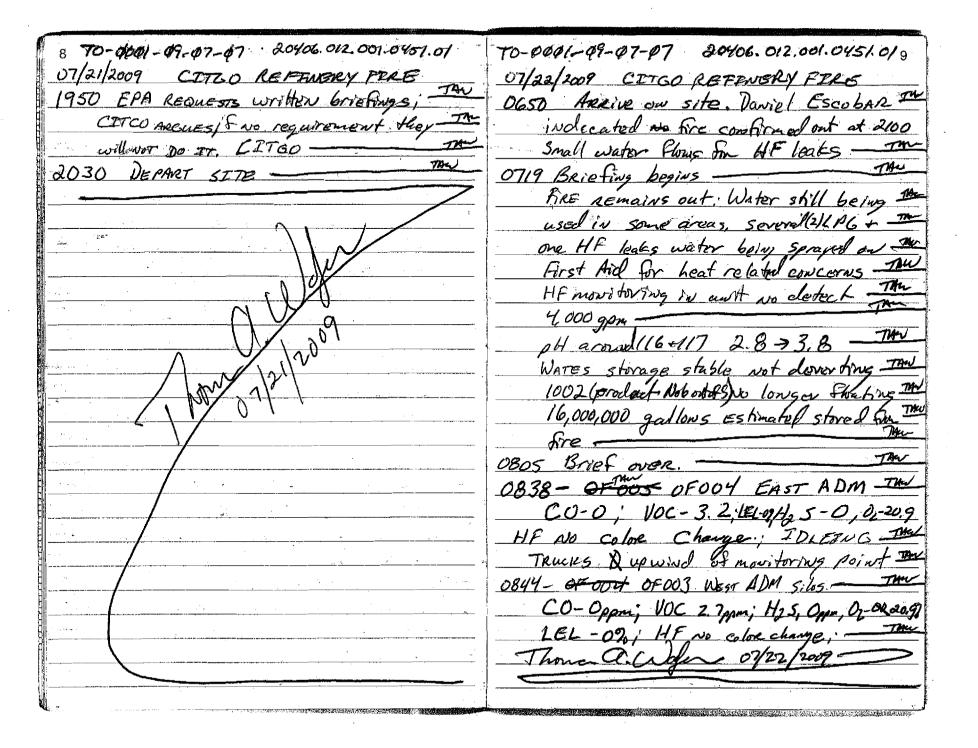
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07/21/2009 CITGO REFINERY, FIRE Corpus Christi	07/21/2009 CITGO REFINERY Fire, Coepus Chrish
0730 BOD, COD, O+G, 759, Hex Cry Cr; Pb,	0900 HF TANK + BUTANE TANKS Isolated. The
Sulfides, phonols, Amorro, Planides	1000 - Collect water sample from outfall -PB
TCEQ	NO. 001 to test for FlouridesPB
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117+116 low PH; - 1900	In three locations around the facility, to -PB
0800 CSB Team arrives for briefling, active fire -PB	the North, the west and North west across
in alkalation unit near No. 1 Settler. Isolated - PB	the ShipChannel.
everything possible, No HF readings outside - PB	1150 - Briefing with Mile Ricke, begin filling tank -B
Suppression systems. Chemical safety board has —PB	2003, have begun process to Stage five water
Chosen to investigate the incident. CSB is boiling - PB	In diked areas around tanks 1029, 1030, 1032PB
to work with OSHA on data & evidence preservation PB	Cityo is requesting access from they to release
CSB will conduct interviews of staff that was - PB	Neutral PH water back into the Ship Channel. To
on site during incident and will enter the unit as -PB	Still have two fires burning, one has been
500n as it has been chemically cleaned for safety -PB	extinguished of the three fires.
reasons to obtain more data for investigation - PB	Flouride discharge Limits Exceded - The
UB38 REQUEST "TWIG" IDS for Sensitive	55, mg/L /10.0 mg/L Remit IN Composite
ALGOS, LEQUEST have AT ML TIMS,	1538 Drop Sample LABORATORY THE
Julie White, Robert J. Hall, MARRY NIKITY -	1538 Drop SAMPLE LABORATORY
CSB; Rixio E. Medina, UP Heilth, Safety,	1552 AIR MONITOR PARKTUG LOT EXCHANGE TON
Security, Environmental Protection and The	N27.8/330; W 097.4308 9 121 - The
Shared Services CPGO - TAND SARA GARCIA, PORT ANTHON TAND	CO-Oppn; VOC 0.0ppn, Hz 5-Oppg The LEL 400 02 20.9
SARA GARCIA, PORT HUTTER	LEL 9% 02 20.9
lowy Challett , Port HARBOR MAS FOR	Elementis Chromium - OFOO) TAN
361-882-5633 Post Main Number Possibly	1608 Air Monitor at intersection of Broadway & Palm
Thomas Wylen / Pain Bl 07/21/2009	N27.80791; W097.41610 12 Pt OF 002 Thoma. Wolon 07/21/209
	10000 Odes odes

6 TO- 1901-49-47-67 2046.012.001.0451.01	TO-0001-09-07-07 20406.012.001.085107
07/21/2009 CITEOREFINISKY FIRES	07/21/2009 CITGO REZINERY FILE
1608 CO-O; VOC-O, H25-O, LEL	1830 PAUL CHOCKCAIR REPLACES - THE
Oxygen - 20.9 - Thu	Enic for wight Shift
1629 WEST OF ADM 5165 OFO03	1935 UpDEE, Dikes have; Fire looks me
N27. 82009, W097.42486 ±13-	like it is gove; Fire monitures still me
CO-Oppm; VOX -0.0ppm; H25-0ppm, O2 20.9-	going until confirmed; Dikes looking at
	1028, and 116+117. DAMAGED EQUAN
1634 East of ADM SIlus OF UDY THE	clue to high waters, WATER levels 1
N27.81842; W097.42101 ±1/ -Ta-	is rain could jeperdize Equipment
CO-Oppm; VOC U.Uppm, H25-0,02-209	that is utted SAFETY RISK, CITGO THE
HF - No colore change 4 h 5 ppm - The	weeds to get water, out of DEKED IN
1640 WEST 0.3 Mile of ADM SILO LOCATINI OFOOS	AREAS, HEAVY RAIN could Comprise IN
1640 WEST 0,3 Mile of ADM SILO LOCATON OFFORS N 27. 82243; W 097, 42 808±11-	TANK, Idle TANKS FLATED CITCO TO THE
CO Oppn; VOC 0.0ppn; H250, 12 - 20.9pm	GET LEST; PREPARENG TO DIVERT TO
HF- No color change <1. Sppn/	CITGO WIN SAMPLE BEFORE RELEASE,
1707 - Unit fram Google EARTH N27.809307.W97.22.488	TCEO REQUESTS SAMPLING ALAW, -THE
For Unit.	MOST DIKES; STARTED NEUTRILIZING THE
1740-TCEQ + EPA OSC REQUEST TO ATTEND -TO	WATER ARONNO 116 and 117 around - THE
1800 means CITCO Ropley was to maintain In	1700 hours, PH and Flavores - The
SEPENATE BREIFING OF TOBOTEPA - TAN	Thought To be only problems; RAIN -THE
1830 TCEQ REPORTS SECONDARY CONTAINMENT THE	GORCASTED FOR Thursday AND FREDAY
ARONNO 1022, 1023, 1024 dry 50 WATER, TUC - THE	Was CITED will shout down monerous
APPEARING IN LIFT STATION: TCEQ SAMPLENG	ATE MONETAR IF HF detected; Fire -The
WATER TO SECONDARY CONTAINMENT THE	Monitores will be Thered on,
Thom a. Wife 01/21/2009 - Then	Thoma a crafe or 12/2009 - TAW
Tow	THE



10 TO-600 08-91-07 20406.012.001.0451.01	TO-0601-09-07-07 200 20406.012.00.015191
01/22/2009 CETGO ROGNONY Fire	07/22/2009 CETGO REGINERY Fire
0848 OF005; 0.25 Mile WEST ADM SULOS TAN	TCEQ Chris Livendo 5/2-239-45/5 1
CO-Oppm; VOL 23 ppm; 155-0; LEL-070 Thu	clinendol TCEQ. state. TX.US =
O2 20,9%, HF No color chang 21.5 pm - The	L'Officeal Stophemy 5/2-239-132/-
0853; OFODG, 200 Feet WEST of GCPC Co	L Stephey@ teeg. state. tx.us - The
Silo NEAR PILO LIND ROAD CROSSING.	1445 - TCE Q'in 1330 meeting willdow
N27.82406; W 097.43206	to EPA in Dallas; ENTREX Daing baseline brological Assessment.
CO-Oppn, VOC-1.3ppn, H25-0, - The	brological Assessment.
Oz- 20.98, HFNO colore change - THY	1615 Briefing, TCED wanted more informat -TAN
0914- OF OOI- Elementis PARKING Lab - THEN	total volume of Freleased, based concerteation-
CO-Oppm; VOC-Oppm; 1125-Oppm - THE	in collected. 4 leaks 2 LPG + 2 HF leaks The
02-20,990; HP No REACHOW - TAN	HF being captured by waters.
0930-0F002- THE	1020-1015 - connot be used - SHIPMI THE
CO-0; VOC-0.0; H2 S-0, Og- 20,99 -The	Still watering at 4,000gpm. Not sure -THE
HP NO Colore change, < 1.5pg2 - the	how leak determined most likely visual. The
1000-Return to CP	Area 116+HT, duck family - possible impact -
1015- Mike Ricke + Christopher Newcomb CITGO	Notified PARKS and Wildlife before - TAN
Running out Space to store water -	corrections called in to CITGO; THE
1029 - Call MARK HAYES, EPAOSC; To let him The	pHiN (16+117 NOW 6.0.
KNOW About discharge; CITGO RUNNING - TON	Claudia Househ 214-665-6464 This
out Room; State wants analytical of	Richard Worster This
whatis tank secondary Confain mont The	USED; WATER Volumes and Concertate to
1140 Mike Ricke Brings in Awater How	370 barrels in Circuit - The
Thom a Wager -	Woust Case. Not all released - The
•	Thoma a. Wofen -
0/24/2009	-072/2008-

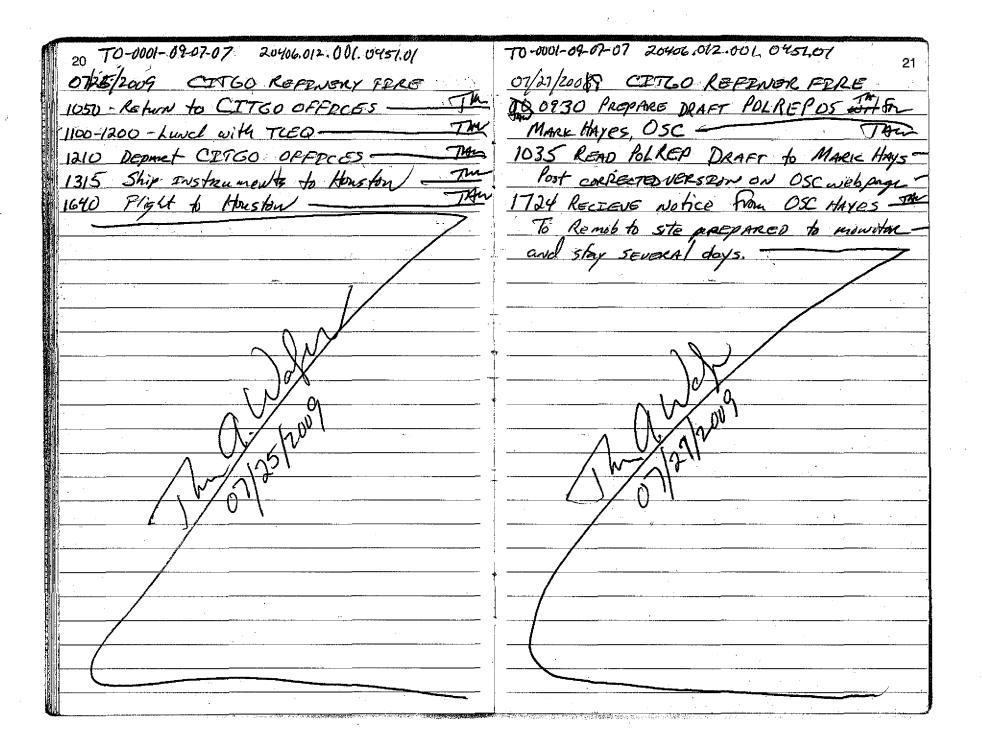
12 TO-0001-09-07-07 20406.012.001.0451.01	70-0001-09-01-07 20406,012,006,0457.01
07/22/2009 CITGO Refinery Fire	07/23/2009 CITGO REFINARY FIRE
as vessels pressurized, 70 barrels - The	0650 START-3 ARRIVE ON SITE; START-3 IM
bused on concentrations water - The	Thomas WAIZER, PATRECK BOND THU
70 barrels released from Unit, but contained	ons First Sample at 0200 07/38/2009. The
on site on out Sall -	Second Sample at 0600 07/23/2009 This
Loaks in unit; Safety personnel may be the	Began pumping 0140 07/23/2009 THE
able enter unt towight to coinp and The	- Collected biselane at DOCK TO 0640
able enter unt towight to coimp and The	Outfall OUY, Estimated at 3500gpm-
LASER; Boundries, of Unit: - The	Monitors on site flow decreased to 3,000,00
Portable nowitores being used . The	may have been tompry decrease - THE
May divert; Priority 220+221-226 Im	220 serves and 301+302 areas being The
401-3405 dikes.	drained 220 series began at 0145 = 150
4.8 -> 6.7 and circulating 116 to 117-74	301+302 began at 0530 a 2,000gpm - The
1645 Call MARK HAYPS, OSC wants as to	
hold of shipping additional Equipment in	004 tylette coot-outfall
and use last breaser labes tomorrow	003 FROM 003-outfall
1845 Deponet Site	Ditch
1845 Depinet Site - The	Thut !
1915 RECIEVE call from Paul Choucair, CITGO	Ditch -
By-pass to ship channel beginning, will -The	enters ditch. The
sample at 4-hour intervals for Permit The	enters ditch.
perameters and flouride; Permit The	Avalyzing for Stormwater Pormit; pH and In
storm water parameters, possibly weed	the neighbor
Thon a Clafer 07/22/2009 - The	The a. Wagn 07/23/2009 That

14 70-0001-09-07-01 20406.012.001.0451.01	TO-0001-09-07-07 20406.012.001.0451.01 15
07/23/2009 CITGO REFINERY Fire, Compus Christ.	r
0843 - 0F006 - CO - Oppn; VOC-7.1 pg- H25=-	0 401 and 300 serves The
Oz - 20,920; HF - No Reaction on Color Change	-1524 - Update - Completed 116+117 Dike The
3pichnes from DF 406;	Area - OTher Dikes No offissues
0851- & OF005 - CO-Oppni; VOC-29pm; - It	Currently 301+302 to Out fell 0084
3 picture PANGRAND THE NO REACTION AND	200 cm Talk + 401 Deta 1000
	Estimated = 200 John 2000 pm Thu Next Tanks 900 Series Thu
UB50- OF003 - CO-Oppn, VOC-2.4ppm, H.S Drens	Next Tanks 900 Series Thu fluoricle and TOC 20's Thu
20.9% Oz; HF No Resection 3 photo pan Men	floronide and TOC 20's Tom
Multi Ree - A87633	AUUS FROU ARCH
Multi Rev - A87635 - THU DREAGEN MUND - ARSK-FOO8 - THU DREAGEN MUND - W NOW WHAT CINCENTERS	2116+2117 TANKS full being run to
0703 OF GOY & DOWN WIND OF IDING	waste water.
Trucks; CO-Oppn, VOC-1.6 ppm, HzS-Oppn	Hecton Gonzolez, + Melony The
20.92 Oz, HF-O	SALT WATER Still pumping into 2003 The
CAMERA-A69935 - PM	2003 Tank secondary Containment, 200
- M	Seal Tech- will enterwit soon Tw
0120-OF OCOI - LIEURUNS PARKING 10T	Are Monitoring nothing at Unit Parameter
HP AM COLON Change Jun; 20,9202 The	1730 Depart Freility The
	1130 apart making
WIND OUT OF SOUTH WEST TO WEST	la and
JAIC CONTPLY	07/03/100
0931 OF 0002 - CO-ggam, VOC-0.0ppm, A25 Oppm The	1hm (1. Wolfer on 163/2009
20.9% On - HF No colore charge - The	Jun 1
I picture - SKSW; There Wind from SE There	
The a Wafer 01/23/2009	
1 ms 1. Osage - joy	

16 70-0001-19-07-07 20406.012.001.0451.01	TO-0001-09-02-07 20406_012,001.0457.01 17
07/24/2009 CITGO REFINERY FORE	07/24/2009 CITGO REGIVERY MILE Compus Christ
Seal 18Ch	1018 HF NO RENETSOR M Colon Change at 2000 40 pumps
0650 Keturn to SITE	CO-0; VOC-1. Oppin, H25-Oppn, 20.98 02
0845 1307, 7.67pHThu	OF 005
900+401 Tank Spranday Contributer - The	1027 - OF GG 3- HF No REMOTER OR COLON TAN
2003 Tank discon liver TAN	CO-0; VOC -0.1 ppm, H2S-0, pm, 2099 02 MAN
301+302-	1343 137018, 10017100,
See 18d installed 2 Clamps on 205 The	900 > 1022 > OARPANIC - The
Gleaks for HF. Still in Bol love A The	Refilling 10 - The
Butane Trough Plane gas RECOVERY Thu	Getting setup 10/102053 1167111
Dike 116+117; higher Flouride AREA The	Dikec Men Through TANKS 116+117 The
112-> 115 ppm (Paskide, Deep Well; looking	Success ful in closing add ground Tour
for deep well disposal with barge berth.	level lenks; Left with one Thu
Ferrie chicken wire to limit duck access	butewe/HF leak in upper levele Tow
to TANK BAHEVICH SOCOWDERY CONTRANTOWN	Due left of top of Sattless Then
Analyzing for benzene Thu	accessed with Man basket.
De CE Harris Wardon a marketing of The	Manuays to Area Danger by The
Det HANDS; Woodgroup may know of The	Fire. HF monitores hope for go ahead The
Deep Well. The The	by Foresic & de Renaid
SENTECK Company doing leak sens - THE	Chris Adams - The
154 0800 Briobus Completo - The	Just finished stopping ONE LEAK THAN
1008 - OF 066- HF No reaction 2 150mm	Looking at deservasing water flow on Im
CO-0, VOC- 2.3; H, S-0; 20.9% Oz THE	uwith - The
The all of 01/24/2009 - The	Thoma a. Wager 07/24/2009 The
7	U

18 TO-0001-09-07-07 20406,012,001.045601	TO-0001-09-07-07 20106-082,001.045/01 19
07/24/2009 CITGO REFINERY Fire, Carpus Chrish	07/25/2009 CITGO REGIVERY Fire CORPUS
1742 " EPB 904720 - 4F-0, VOC 1.1	0650 ARRIVE FACILITY - TON
0.0 Cg, LEL 03 VOC 20,990	MARK TRUE FACILITY TRUE
OF OOG WIND FRA EAST THE	0800 - Able to successfully crimp vowt - M
HF VOC C/2 LEL OZ WIND	live on settler. They identified leak It
PPM PPM PPM 20 20 FROM	on 12 inch line; Packing gland, steam Th
Dragg 1742 0 81.1 0.0 0 209 EAST	live leak. Instrument aire Smaller The
0F005-1748 0 0.9 0.0 0 20.9 EHST	leaks, leaks most likely butune; with _ The
0FQQ3 1752 0 0.8 0.0 0 20.9 EAST	TRUCE of HF. Still NO RELEASE From Unit The
OFADI 1805 0 0,3 0.0 0 20.9 EAST	Looking to go to curtain; Continue to The
oragn 1815 0 0,1 0.0 0 20.9 EAST	pump from dike, 12,000,600 gallows discharge
1915 Macking ENTREX BIRD EXPORT HORE; PATTAWK.	Hurnigh out Pumping from 900 sories, 200 series, 1031
DEEP WELL; WATER discharged; spreadsheet	2003 Truck test with Flouride of 6 ppm now to-
- inoking on, No number yet. Adding monther	Oak Park (Od4) - Product - Unit has The
to outfall god; ONE SEHTOR 1349C	only upsi left in system
WATER POULED; May have shutdown	he indicate START Can do mob - THE
ONE MONITUR; 1030-1028 - STATIC!	he indicate START can do mot - THE
will sample for discharge, Discharge	LOCATION TIME TOWN HE VOC CI, LEL O, WINI
3,000 gpm, Copor Suppression at about	PP DOG DEST. PPM ppm pom 26 2 DE.
3,000gpm as WEll The	0FQG6 Q956 0. 1.8 QQ 0 20.9 SE
1945 Depart Facility - 7MW	0 F 9 Q S 1001 0 2 2 0 9 0 249 SE
1 0/24/2009	OF \$63 1005 0 2.2 \$6 \$ \$249 5E
DI Now 1947	0F 404 1008 0 1,9 0,0 0 209 SE
1 hull	DP 092 1021 0 1.0 0.9 6 20.9 SE
3,000 gpm, Vopor Suppression at about 3,000 gpm as WE/I. 1945 Depart Facility Thu May 1247009	OF 001 1030 1 0 0.7 00 0 209 SE
	Thoma. Wagn 07/25/2009 -
	V

I leak The Steam The



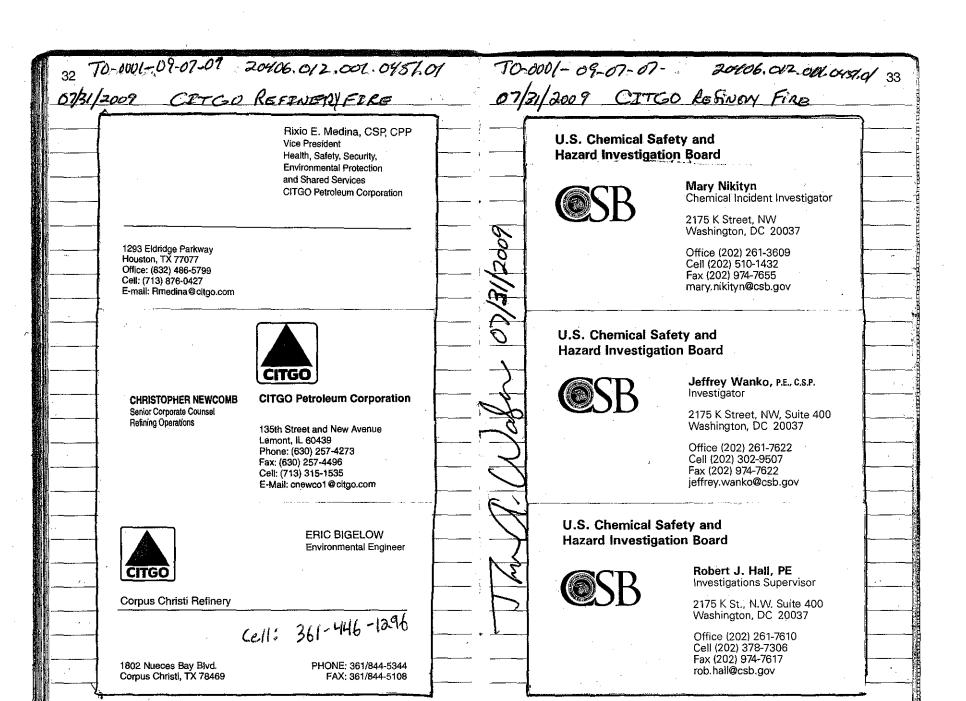
22 70-0101-09-07-07 20406,012,001,0457,01	TO-0001-09-07-07 20406.012.001.0452.01 23						
07/18/2009 CITCO DEGON FOR CAPACCHOUSE	07/28/2009. CITGO REFINER FIRE, COMPUTE CHARACT						
Oboo ARREVE office to prepare costs. For project; OB30 Ansive RES (womenhouse) locate goar + In	1500- monitors and repair the repairable -						
for project;	TCEQ sampling 2 per day - THE						
0830 Ansive RES (workshouse) locate goar +	No moved any water from 16-117 The						
10:00 Destances Mossified The The Star CITGO THE	Looking to treat with RO on In						
14:00 ARRIVE CITGO	Exchange 1851N						
1405 Contact TCEQ-Roger Bennett hewill	and vapor suppression						
be here for 1500 briefing.	and vapor suppression						
1410 Contact EAA-OSC Maren Hay es, confirmed	No air defections. No AF outside						
meeting The	of unit; All clear not issued.						
1900 - Marx Cheesement Christophor Ju	Investigation System running-1-71.5						
HSSESSMENT GAM ENTERNI, MOTON NOW	lopsig. Nemoving all can priore						
meales, hydrocarbonrowly; Manitores Then will be installed.	decay. Plan to decon Exterior - The						
By will be installed.	LOCATION TIME HE VOC Ch LEL OR WIND PAM PAM PAM POM SONHA						
Fresh water being flushed to monitals	0F001 1601 0 1.0 0.0 0 20.6 States						
Bogan yesterday- will collect discharge;	08002 1609 0 0.6 0.0 0 20.7 SOUTHERST						
004 only running 10-> 1855 ppm flouricle -	0F0\$6 1625 0 0.0 0.0 0 209 Southers						
ool in compliance except for flourideat-	0F005 1628 0 00 0.0 0 209 Southbur						
5700m	0F003 1632 0 0.0 0.0 0 20.9 Southern						
Progress using 3,000 gpm into Unit, - The							
will discharged of the total the telestical	1545 DEPART SITE THE						
Just standing to install replacement - The alle	1545 DEPART SITE THE 1615 HOTEL DANNILOAD EDIT POLICE STARTED THE						
-17 MM 07/28/2009	1830 Complete Pol Rep						
I millige -	The Wash 07/29/2009						

24 70-0001-09-07-07 20406.012-001.0457.01	TD-0001-09-07-07 20406.012.001.045101 25							
07/28/2009 CITGO Refinery Fire Corpus Chrish	07/29/2009 CITCO Refinery Fire, Corpus Christi							
0800 - ANEA LOVE 904759 - Unit 3 - The	1011 To Some storementer lift system and							
Bump TEST UNIT 10ppm Clain No The	Running out sea water - dropping nto either							
Lot 919784 - 10ppm Col -	Storemwater are into secondary Containment							
Bump TEST. UNIT 10ppm Cl210N2 The Lot 919784 - 10ppm Cal - The	used to store fire fighting water. The Will be checked							
The	Will be checked							
LOCATION Time HF VOC CL. LEL O2 WIND THO have ppm APM PAM 22 26 The DP OBJE OBJE O LO OD O DOD SOUTHWEST - OF OBJ 0907. O 1.0 Cl2 O 20.9 Southwest -	Containment AREA soil sampling plan							
hours pam day van 2 6	IN WORKS,							
0P 0862 0800 0 60 00 0 200 Southwest -	11:00 CARL OSCHMEN HAYES LEFT MESSAGE							
08 001 0907 0 1.0 C/2 0 209 Southwest-	1230 Contact USC MARK FIALS OBTATN LIST OF							
SF-006 1923 0 07 0,0 0 20.7 Sontwest -	QUESTRONS							
0F005 0929 0 13 00 0 1049 South east -	HOW MUCH SEAWATER HAS BEEN DESCRIBED							
OF 003 0930 D 0.5 0.0 0 209 Streng word -	2. HOW MUCH SPAWATED IS STORED							
OFFIGY TRUCKS SIOCKERS LEDGE-	3. HOW MUCH PRESHWATER IS STORED IN							
	SECONDARY CONTAINMENT AROUND TANKS 116+117							
1000-All clear sounded at 2025; LASERS	4 How much fire Fighting WATER WAS DISCHARGED							
Backon detect and Activate WATER	Into Traves 116 +117 prior to diversion to							
decon of unit The	secondary continuent mand 116+117.							
week of unit	1500 - BENZENE - OKCLOHENANE; MANTENUNCE ON UNDER							
WATER stopped at 1730 water cannows ASSESSED sound all clear	116-117 EQUALE ZATION TAWKS -1945							
	- 116-117 Secondary - RO-concerente							
Overall number fore discharge from 964	Flavorede Despuell injection. The							
pending; Out side water samples, SETT	118-120 ppm Phonides; Mi - The							
From Box at 3500 cam Duching Grounder	116+117 mixED and drained from bottom.							
Jan Qu'at 3,500 gpm; flushing firewater	1 hull Wafe O 129/2009							
The second of th	tion of the program of the transfer of the first of the control of							

26 70-0001-09-07-07 20406-012-001.0451.01	TD-0001-09-07-07 20406.012.001.0457.01 27
07/29/2009 CARO REFINERY Five, Coepus Christy TX	07/30/2009 CRTGO REFERENCY PERE, compus Christ-
150,000 gattons IN secondary Contamusal	0800 WRICENS WITH AREA RAES SETUPT CHANGE
in 116+117 Secondary Containment.	0830 oButter of SCREBE Prep Unil
FRESH WATER ON Unit Monday or, Surday	1050 Calibrate Unit 3;
1620 Began Firewatten Phis H Olizefron	
TANK Isolator So NO SEMULATER IN TANK	LOCATEON TIME HF VOC CIZ LEL OZ WIND: -THE
	1700cm 1 00m 100m 101 10
. OOH Will be sampled Every 4 hours	OF 002 607 0 13 00 0 207 - The
	0F001 1116 0 0.8 0.0 0 20.9 Southers The
	0 06 1141 0 0,3 03 0 20.9 Sulliens
drafted into secondary containment	0F495 1146 0 0.2 0.0 0 20.9 Sod Gars The
FillED DA LAWKS Again -	070087 1150 0 0.0 0.0 0 2019 Sol Chy THE
LESS FORM WORK	
TCED Samples not fully dowe, pre limmary	OF 60 Natiole 1 / Wol 1 41 670
data not Albu it to	- OF 904+0F003 WERE BLOCKED BY TRUCKES
Dewentony Alky anit tomorrow -	1400 Contactod Marc Cheesman - De-inventory It
Monitors OPERATENG NO DETECTIONS. RTFC - RINEY TERMINAL FIRE Company -	
Multisector Permit No Stremwater	
is under NTPDES Discharge Permit.	Clz Lot# 919784 TAN
1556 DEPART CITGO OFFICES	Multigas Lot# Tun
Derreit Circo	VOC Let = The
20110	1536 Add Monto OFOOB Johnst Palm De The
Jhult 0 /29/2009	N27. 806 40; W097. 41727
01010	10 all
	- July of

28 70-0001-09-07-07 20406.012.001.0451.01						2.001.0	0951.01	TO-0001-09-07-07 20406.012.04.0451.01 29
07/30/8	1009	I	60	REP	EWER	1 FDA	B, Coypus Chris.	07/30/2009 CETGO KORNOY FRE CORPUS Chrish
LOCATION	Time	HF	VOC.	Clz	LEL	102	Ward	1541 - 84 OFOGS SWENER Nueces St and
	Howes	POM	PPM	ppm	1%	12		PALM DR N27.80475, W097-4/833 -Th
0F-0002	r 1		•			20,9	SE	1547- OF DID SWCOENER PAIN DE + MINTON ST
OFEES	·						<u>SE</u>	N27-880308, W097, 4/946 - The
40F889	141543	0	0.0	0.0	U.	20,7	S&	1550- OF OIDS SWCTENDE PAlm Det Koepke St -The
OFØIG	1549	0	0.0	0.0	_0_	20,9	'SB	N 27. 80230; W 097. 4/998 - Me
OFOIL	1553	0	0.0	00		20.9	SE	1555- OF 012 SWCRENER PALM DE+ NOAKES ST
cFQ12	1600	0	0.0	0,0	0	20.9	<u>SE</u>	N. 27.80070; W 097.42107-
OF \$13	1604	0	0.0	0.0	0	20.9	58	1604 - OF 013 SENECTENDE Stillman AVE and -
OPOIT	1611	0	0.0	0.0	0	20.8	SE	Martin Luther King DR -
OPOIS	1616	O.	0.0	00	0	zag	SE	N27.79888, W 097.41910
UROIL	1619	0	00	0.0	0	20.9	56	1609- OFBIY NECORNE Stillman AVE + Hulbert St
0PØ17	1622	0	0.0	0.0	0	20.8	50.	N27.80043; W087.41813
OF Ø18	1626	_0	100	00	0	20.9	SE	1613-OF 015 NECRENER SKILMAN HUE+ MINTON ST
OFO01	1640	0	00	0.0	O	20.8	SÉ	N27.80208 W 097-41702 THE
0F006	1722	0	0.0	00	0	20.9	SB.	1617- OPOIG NECORUZ SHILMAN MUST MONEST
08005	1726	O	0.0	10.0	0	20.9	SE	N27.80285 W 097.41644 - 14
08003	173/	0	0.0	100	0	120.8	1	1621- OF OLT NE CARNER SHILMAN AUX + DEMASEN
OF OP 4	1735	0	00	0.0	0			St - N27. 80457 WO97.41526 -The
0F907	1740	_0			9	20.9		1625 - OPO18 - NB CORNER Stillman + Summest
			+	10	+	1/200		& 1815- Complete DRAFT POLRED
		1-1	\mathcal{M}_{λ}	Jan	Ψ^{g}	100	T	Coredinate 05018 27.80618, N 097, 41417 The
7.70		mi	4	10		1		
		·	1 -		1_	<u> </u>		Thua Wife 07/30/2009
	 		 		1=	\bigvee	#	*
			লয় ক্রমে সাহা <u>ন</u> কর			was received		

30 TO-0001-09-0207 20406.012.001.045601	TO-0001	1-09-6	705	20%	06.0	12.0	01.0	451.01 31
07/31/2009 CITGO RESINEY FIRE	07/31/2	009	CZTO	- 0 -	Ke h	wey	(A)	i
OBOD FEDEN	Locateon	TIME	HF	VOC	Ch	LEL	Oz	WIND
0915 RETURN Hotel EMMEL MAD		hairs	PIM	PPM	APM	%	9	
1000 Unit 8 No call due to Flow Proplems	OF 001	1040	0	0.0	0.0	0	20.9	South = SW
1015 Unit 3 SAME lits As Yesterday	0FØ19	1050	0	0.0	0.0	0	21.4	South
10ppn Ch - 6HP 10.1 Ch	0F002	1056			0,0			Such
100 ppm Isobuty/vne 99,9	80F 008	เบริโ	0	0,0	0,0	0	21.6	Satt
SO% LEL	OF 009	1101	0	0.0	0.0	0	21.7	Sout 4
1045 SET OF Ø19, Common Buddy Lawrence	OF 410	1103			0.0			Sould
DR and OAK MEK Ave.	UP \$11	1105	0	0.0	0.0	0	21.8	Soul4
N 27.80608, W097.43114	OF 012	1107	0	0.0	0.0	0	21.8	Sout 4
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LEL Strol 50-20,902 - 471BL + 22/	0P 016	1116	0	ł	ł	0	22.	Sould - Soul BAT
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34 TO-0001-09-07-07 20406.012.00457.01 07/31/2009 CRTGO REFINARY FIRES	TO-0001-09-07-07. 20406 02.0457.0/ 35
ROGER BENNETT Emergency Response Coordinator Field Operations Division Region 14 © Corpus Christi Texas Commission on Environmental Quality NRC Bldg., Ste 1200, 6300 Ocean Dr., Unit 5839 Corpus Christi, Texas 78412-5839 Direct 361/825-3386 © Office 361/825-3100 Fax 361/825-3101 © rbennett@tceq.state.tx.us printed on recycled paper	
olation book	

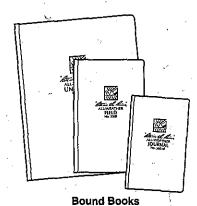
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	5155 I-37 NORTH, CC, TX 78408 \ 5721
	FEDEX; 201 S. Padre Island DR, Corpus Christ 78405

361-537-1478 Roger Bennett. 7CBD Exic Bigelow - CITCO 361-446-1296 Choucair - CITCO 361-774-5883 361-537-7917 361-299-1234 ENTEPRISE - NAITCWS Highway 44, CC, TX Mike Ricke 361-290-0319 TCEQ - ENVENNE 361-844-4882 MARIC Chees MEN

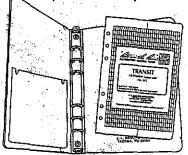
ALL-WEATHER WRITING PAPER

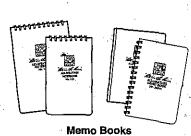






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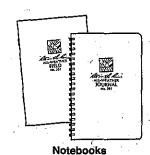




Loose Leaf / Ring Binder



All-Weather Pens



www.RiteintheRain.com

ATTACHMENT K

NRC REPORT NUMBER 912017

NATIONAL RESPONSE CENTER 1-800-424-8802

*** For Public Use ***

Information released to a third party shall comply with any

applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 912017

INCIDENT DESCRIPTION

*Report taken at 12:08 on 19-JUL-09

Incident Type: FIXED
Incident Cause: UNKNOWN

Affected Area:

The incident was discovered on 19-JUL-09 at 08:35 local time.

Affected Medium: AIR INTO THE ATMOSPHERE

SUSPECTED RESPONSIBLE PARTY

Organization: CITGO REFINERY

CORPUS CHRISTI, TX

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

1801 NUECES BAY BLVD County: CORPUS CHRISTI

City: CORPUS CHRISTI State: TX

RELEASED MATERIAL(S)

CHRIS Code: BUT Official Material Name: BUTANE

Also Known As:

Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

THE CALLER IS REPORTING THAT A PIECE OF EQUIPMENT FAILED AND RELEASED BUTANE INTO THE ATMOSPHERE. THE BUTANE CAUGHT FIRE. THE AMOUNT OF BUTANE RELEASED IS UNKNOWN.

THERE IS ALSO A POTENTIAL RELEASE OF A VERY SMALL AMOUNT OF HYDROGEN FLUORIDE.

INCIDENT DETAILS

Package: N/A Building ID:

Type of Fixed Object: REFINERY Power Generating Facility: NO

Generating Capacity:

Type of Fuel:

NPDES:

NPDES Compliance: UNKNOWN

DAMAGES

Fire Involved: YES Fire Extinguished: NO

INJURIES: YES Hospitalized: 1 Empl/Crew: Passenger: FATALITIES: NO Empl/Crew: Passenger: Occupant:

EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

Length of Direction of

Closure Type Description of Closure Closure Closure

Air: N

Road: N Major Artery: N

Waterway: N

Track: N

Passengers Transferred: NO Environmental Impact: UNKNOWN

Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

THE RELEASE OF BUTANE HAS STOPPED, HOWEVER, THE FIRE HAS NOT BEEN PUT OUT.

Release Secured: YES

Release Rate:

Estimated Release Duration:

WEATHER

Weather: PARTLY CLOUDY, OF Wind direction: S

ADDITIONAL AGENCIES NOTIFIED

Federal: NONE

State/Local: TCEQ, PD, FD
State/Local On Scene: PD, FD
State Agency Number: NONE

NOTIFICATIONS BY NRC

CHEM SAFETY AND HAZARD INVEST BOARD (CSB AUTOMATIC NOTIFICATIONS)

19-JUL-09 12:19

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

19-JUL-09 12:19

U.S. EPA VI (MAIN OFFICE)

19-JUL-09 12:26

USCG COMMAND CENTER (MAIN OFFICE)

19-JUL-09 12:19

JFO-LA (COMMAND CENTER)

19-JUL-09 12:19

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

19-JUL-09 12:19

NOAA RPTS FOR TX (MAIN OFFICE)

19-JUL-09 12:19

NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)

19-JUL-09 12:19

SECTOR CORPUS CHRISTI (COMMAND CENTER)

19-JUL-09 12:24

TCEQ (MAIN OFFICE)

19-JUL-09 12:19

TX DEPT OF STATE HEALTH SERVICES (COMMAND CENTER)

19-JUL-09 12:19

TEXAS STATE OPERATIONS CENTER (COMMAND CENTER)

19-JUL-09 12:19

ADDITIONAL INFORMATION

NO ADDITIONAL INFORMATION.

*** END INCIDENT REPORT # 912017 ***

ATTACHMENT L

TDD NO. TO-0001-09-07-07 AND AMENDMENT A

EPAU.S. EPA Washington, DC 20460

START3 Technical Direction Document

TDD #: TO-0001-09-07-07 Contract: EP-W-06-042

Response Activities- REMOVAL Funds (0001) Weston Solutions, Inc.

= required field			
TDD Name:	Citgo Refinery Fire	! Period: Base Period	
! Purpose:	Work Assignment Initiation	Verbal Date: 07/20/2009	
! Priority:	High	! Start Date: 07/20/2009	
Overtime:	Yes	! Completion Date: 11/30/2009	
! Funding Category:	Removal	Invoice Unit:	
! Project/Site Name:	Citgo Refinery Fire	WorkArea: RESPONSE ACTIVITIES	
Project Address:	1801 Nueces Bay Blvd	Activity: Emergency Response	
County:	Nueces	Work Area Code:	
City, State:	Corpus Christi, Texas	Activity Code: RV	
Zip:	78469	EMERGENCY CODE: KAT RIT	
! SSID:	A6R9	FPN:	
CERCLIS:		Performance Based: No	
Operable Unit:			
Authorized TDD Ce	eiling:	Cost/Fee	LOE (Hours)
	Previous Action(s):	\$0.00	0.0
	This Action:	\$15,000.00	0.0
	New Total:	\$15,000.00	0.0

Specific Elements More specifically the contractor shall, - Collect facts regarding the discharge or release to include its source and cause, - Analyze the nature amount and location of discharged or released materials, - Analyze the potential impact on human health welfare and safety and the environment posed by the release of hazardous substances contaminants or pollutants and discharge of oil, - Provide analysis of discharges or releases posing a substantial threat to the public health or welfare of the United States, - Analyze the potential impact on natural resources and property, - Observe and document federal state and private actions taken to conduct a response action, - Input contractor's costs using the EPA cost tracking software Removal Cost Management System (RCMS), - Analyze PRP response documents and actions, - Document PRP activities and provide negotiation support, - Verify PRP compliance with enforcement orders, - Develop public information summaries for Internet distribution, Provide technical advice findings facts recommendations and options., Maintain response capability to respond to discharges/releases or threatened discharges/releases as defined in Subparts D and E of the National Contigency Plan.

Description of Work:

All activities performed in support of this TDD shall be in accordance with the contract and TO PWS.

Tier 2 Response. Coordinate with OSC Mark Hayes.

Accounting and Appropriation Information

SFO: 22

Line	DCN	IFMS	Budget/FY	Appropriati on Code	Budget Org Code	Program Element	Object Class	Site Project	Cost Org Code	Amount
1	RVC080	XXX	08	TCD	6A00E	302DC6C	2505	A6R9RV00	C001	\$15,000.00

Funding Summary:	Funding
Previous:	\$0.00
This Action:	\$15,000.00
Total:	\$15,000.00

Funding Category

Removal

Section		
- Signed by Mark Hayes/R6/USEPA/US on 07/23/2009 04	4:05:52 PM, according to Cheng Wei Feng/start6	6
: Mark Hayes	Date: 07/23/2009	
Project Officer Section - Signed by Linda Carter/R6/USEP	A/US on 07/27/2009 09:56:27 AM, according to	CI
Project Officer: Cora Stanley	Date: 07/23/2009	
Contracting Officer Section - Signed by Cora Stanley/R6/L	JSEPA/US on 07/23/2009 05:42:04 PM, according	าg
Contracting Officer: Cora Stanley	Date: 07/23/2009	
Contractor Section		
Contractor Contact:	Date:	

EPAU.S. EPA Washington, DC 20460

START3 Technical Direction Document

TDD #: TO-0001-09-07-07 Amendment#:A Contract: EP-W-06-042

Response Activities- REMOVAL Funds (0001) Weston Solutions, Inc.

! = required field				
TDD Name:	Citgo Refinery Fire	! Period:	Base Period	
! Purpose: (Change Period of Performance, Incremental Funding			
! Priority:	High	! Start Date:	07/20/2009	
Overtime: v	Yes	! Completion Date:	12/30/2009	
! Funding Category:	Removal	Invoice Unit:		
! Project/Site Name:	Citgo Refinery Fire	WorkArea:	RESPONSE ACTIVITIES	
Project Address:	1801 Nueces Bay Blvd	Activity:	Emergency Response	
County:	Nueces	Work Area Code:		
City, State:	Corpus Christi, Texas	Activity Code:	RV	
Zip:	78469	EMERGENCY CODE:	\square Kat \square Rit	
! SSID:	A6R9	FPN:		
CERCLIS:		Performance Based:	No	
Operable Unit:				
Authorized TDD Cei	iling:	Cost	/Fee	LOE (Hours)
	Previous Action(s):	\$15,00	0.00	0.0
	This Action:	\$10,00	0.00	0.0
	New Total:	\$25,00	0.00	0.0

Specific Elements More specifically the contractor shall, - Collect facts regarding the discharge or release to include its source and cause, - Analyze the nature amount and location of discharged or released materials, - Analyze the potential impact on human health welfare and safety and the environment posed by the release of hazardous substances contaminants or pollutants and discharge of oil, - Provide analysis of discharges or releases posing a substantial threat to the public health or welfare of the United States, - Analyze the potential impact on natural resources and property, - Observe and document federal state and private actions taken to conduct a response action, - Input contractor's costs using the EPA cost tracking software Removal Cost Management System (RCMS), - Analyze PRP response documents and actions, - Document PRP activities and provide negotiation support, - Verify PRP compliance with enforcement orders, - Develop public information summaries for Internet distribution, Provide technical advice findings facts recommendations and options., Maintain response capability to respond to discharges/releases or threatened discharges/releases as defined in Subparts D and E of the National Contigency Plan.

Description of Work:

All activities performed in support of this TDD shall be in accordance with the contract and TO PWS.

Amendment A: Changes period of performance and increases funding for additional site monitoring and documentation.

Tier 2 Response. Coordinate with OSC Mark Hayes.

Accounting and Appropriation Information

SFO: 22

Line	DCN	IFMS	Budget/FY	Appropriati on Code	Budget Org Code	Program Element	Object Class	Site Project	Cost Org Code	Amount
1	RVC080	XXX	08	TCD	6A00E	302DC6C	2505	A6R9RV00	C001	\$10,000.00

Funding Summary:	Funding
Previous:	\$15,000.00
This Action:	

Funding Category
Removal

Total: \$25,000.00

Section - Signed by Mark Hayes/R6/USEPA/US on 07/30/2009 03:28:19 PM, according to Cheng Wei Feng/start6 : Mark Hayes Date: 07/30/2009 Project Officer Section - Signed by Linda Carter/R6/USEPA/US on 08/04/2009 07:34:25 AM, according to Cl Project Officer: Linda Carter Date: 08/02/2009 Contracting Officer Section - Signed by Cora Stanley/R6/USEPA/US on 08/03/2009 11:18:01 AM, according Contractor Section - Signed by Robert Beck/start6/rfw-start/us on 08/10/2009 08:03:14 AM, according to No During the past three (3) calendar years has your company, or any of your employees that will

Contractor Contact: Robert Beck Date: 08/10/2009

○ Yes

be working at this site, previously performed work at this site /facility?